



This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

### Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

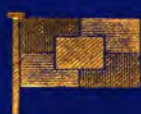
- + *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
- + *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
- + *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
- + *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

### About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at <http://books.google.com/>



# FLAGS



NATIONAL & MERCANTILE

HOUSE FLAGS & FUNNELS

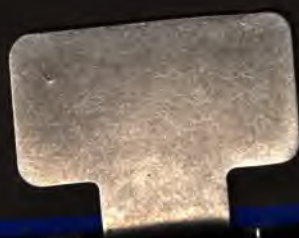
7/6

J. BRIEFIN & CO. TONTEMOU





24107K













# FLAGS

## NATIONAL AND MERCANTILE

CONTAINING FLAGS OF

THE ROYAL NAVY; NATIONAL ENSIGNS FOR MEN-OF-WAR;  
NATIONAL COLOURS FOR MERCANTILE MARINE;  
INTERNATIONAL CODE; FOG SIGNALS; OPTIONAL SIGNALS;  
SIGNALS OF DISTRESS;  
VESSELS LIGHTS AS SEEN BY A LOOK-OUT MAN.

AND

## 360 HOUSE FLAGS AND FUNNELS

OF THE

PRINCIPAL SHIPS OF THE

## MERCANTILE MARINE.

COMPILED BY

*JAMES GRIFFIN.*

1883.

PORTSMOUTH.

GRIFFIN & Co., 2, THE HARD,

(Publishers, by Appointment, to H.R.H. the Duke of Edinburgh)."

LONDON—Simpkin, Marshall & Co.; Imray & Sons, 89 & 102, Minories;  
Charles Wilson, 156, Minories; H. Hughes & Son, 59, Fenchurch Street;  
R. H. Laurie, 53, Fleet Street; J. D. Potter, Poultry; E. Stanford,  
Charing Cross.

LIVERPOOL—Phillip, Son & Nephew.

SOUTHAMPTON—J. Blount Thomas.

HAMBURGH—Friederichsen & Co.

BREST—F. Robert, 44, Rue d'Aguillon.

GLASGOW—McGregor & Co., Clyde Place

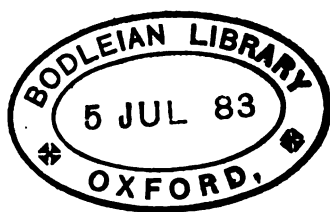
CAPE TOWN—Juta, Heelis & Co.

MELBOURNE—George Robertson.

HONGKONG—Kelly & Walsh.

BOMBAY—Thacker & Co.







## Notice to Shipowners.

The Publishers will be glad to insert in subsequent editions of this work, the Flags of any Owner or Company (not in the present list), if they will kindly forward a drawing and particulars of it, addressed to

**GRIFFIN & Co.,**

2, THE HARD,

PORTSMOUTH,

and notice of ANY ERROR in this book will be gratefully received, and shall be corrected.









## I N D E X .

A.				Page.	No. of Flag.
Aberdeen Line	-	-	-	15	350
Adam, Hamilton & Co., Greenock	-	-	-	8	1
Adamson & Ronaldson, London	-	-	-	8	2
Adamson & Short, North Shields	-	-	-	8	3
Admiralty Flag	-	-	-	1	
Admiral's Flag	-	-	-	1	
African Steam Ship Co., London	-	-	-	8	4
Albion Shipping Co., Glasgow	-	-	-	14	241
Alexander & Radcliffe, Liverpool	-	-	-	8	5
Allan Line, Glasgow	-	-	-	8	6
American Steam Ship Co., London	-	-	-	8	7
Anchor Line, Glasgow	-	-	-	8	8
Anderson, Anderson & Co., London	-	-	-	14	242
Anderson, Horan & Co., Sunderland	-	-	-	8	9
Angier Bros., London	-	-	-	8	10
Anglo Egyptian Navigation Co., London	-	-	-	8	11
ARGENTINE REPUBLIC for Men-of-War	-	-	-	3	
"            "            for Mercantile Marine	-	-	-	5	
Apcar & Co., Calcutta	-	-	-	8	12
Asiatic Steam Navigation Co., Liverpool	-	-	-	8	13
Atlas Line, Liverpool	-	-	-	8	14
Australasian Steam Navigation Co., Sydney	-	-	-	8	15
AUSTRIA for Men-of-War	-	-	-	2	
"            for Mercantile Marine	-	-	-	4	



	B.	Page.	No. of Flag.
Bacon, John, Liverpool	-	8	16
Bailey & Leetham, Hull	-	8	17
Baine & Johnston, Greenock	-	14	243
Balfour, Williamson & Co., Liverpool	-	14	244
Bates, E. & Sons, Liverpool	-	14	245
Bay Line, Glasgow	-	14	246
Bedouin Steam Navigation Co., Liverpool	-	8	18
Belfast Steam Ship Co., Belfast	-	8	19
BELGIUM for Men of War	-	2	
„ for Mercantile Marine	-	4	
Ben Line	-	14	247
Blackwall Line, London	-	10	89
Blue Diamond Line, Liverpool	-	8	20
Blue Ensign	-	1	
Blythe Bros., Liverpool	-	8	21
BOLIVIA for Men-of-War	-	3	
Bowring, C. T. & Co., Liverpool	-	14	248
BRAZIL for Men-of-War	-	3	
„ for Mercantile Marine	-	4	
British and African Steam Navigation Co., Glasgow	-	8	22
British and Burmese Steam Navigation Co., Glasgow	-	8	23
British and Eastern Shipping Co., Liverpool	-	14	249
British India Steam Navigation Co., London	-	8	24
British and Irish Steam Packet Co., Dublin	-	8	25
British Shipowners Co., Liverpool	-	14	250
Brocklebank, T. & J., Liverpool	-	14	251
Brown, W. A. & Co., Glasgow	-	14	252
Brown, Atkinson, & Co., Hull	-	8	26
Brown and Watson, Glasgow	-	14	253
Bruce, D. & Co., Dundee	-	14	276
Bullard King, & Co., London	-	14	254
Bulloch, J. and G., London	-	14	255
Bulloch's Bay Line, London	-	14	256



			Page.	No. of Flag.
BURMAH for Men-of-War	-	-	3	
Burmah Steam Ship Co., Greenock	-	-	8	27
Burns and Mc.Iver, Liverpool	-	-	{ 8	28
			{ 9	25
Burrell and Son, Glasgow	-	-	8	29

## C.

Caird, C. S., Greenock	-	-	14	257
Canada Shipping Co., Montreal	-	-	8	30
Capper, Alexander and Co., London	-	-	8	31
Carmichael, A. & J. and Co., Greenock	-	-	14	258
Carvill, F. and Son, Liverpool	-	-	8	32
Castle Line, London	-	-	9	56
Caw, D. and Co., Glasgow	-	-	8	33
Cay, Matthew, South Shields	-	-	14	259
Cay, M. and Co., South Shields	-	-	8	34
Cayzer, Irvine and Co., Glasgow	-	-	9	41
Channel Line,	-	-	8	35
CHILI for Men-of-War	-	-	3	
„ for Mercantile Marine	-	-	5	
CHINA for Men-of-War	-	-	3	
China Navigation Co., London	-	-	8	36
China Trans-Pacific Steam Ship Co., London	-	-	8	37
City of Cork Steam Packet Co., Cork	-	-	8	38
City of Dublin Steam Packet Co., Dublin	-	-	8	39
City Line, Glasgow	-	-	8	40
Clan Line, Glasgow	-	-	9	41
Clapham, H. and Co., Newcastle	-	-	9	42
Clink, J. D., Greenock	-	-	14	260
Clarke (Stephenson) and Co., London	-	-	9	43
Clutha Shipping Co., Glasgow	-	-	14	261
Clyde Shipping Co., Glasgow	-	-	9	44



			Page.	No. of Flag.
Cohen, A. M., Newcastle	-	-	9	45
Collings and Co., London	-	-	9	46
Commercial Steam Ship Co.,	-	-	9	47
Commodore's Pendant	-	-	1	
Compagnie Generale Transatlantique, Paris	-	-	9	48
Compania Trasatlantica, Barcelona	-	-	9	49
Cork Steam Ship Co., Cork	-	-	9	50
Corry, J. P. and Co., Belfast	-	-	14	262
Cory and Co., West Hartlepool	-	-	9	51
COSTA RICA for Mercantile Marine	-	-	5	
Cotesworth, Lynne and Co., Liverpool	-	-	14	263
Coverdale, Todd and Co., Hartlepool	-	-	9	52
Craig, R. and J., Glasgow	-	-	{ 9 14	53 264
Crawford, W. J., Greenock	-	-	14	265
Crow, Bogart and Co., Liverpool	-	-	14	266
Culliford and Clark, Sunderland	-	-	9	54
Cunard Line, Liverpool	-	-	9	55
Currie, (Donald,) and Co., London	-	-	9	56
Cuthbert, R. and Co., Greenock	-	-	14	267

**D.**

Dale Line, Liverpool	-	-	14	268
Daniel, T. and Sons, Bristol	-	-	14	269
De Busche, E. M. and Co., London	-	-	9	57
De Wolf, J. S. and Co., Liverpool	-	-	14	270
DENMARK for Men-of War	-	-	2	
„ Mercantile Marine	-	-	4	
Devitt and Moore, London	-	-	14	271
Diamond (Blue) Line, Liverpool	-	-	8	20
Distant Signals	-	-	6	
Distress Signals	-	-	6	



			Page.	No. of Flag.
Dixon and Wilson, Sunderland	-	-	9	58
Dixon, W. H., Liverpool	-	-	9	59
Dixon, W. T. and Sons, Liverpool	-	-	14	272
Dobell, Alfred, and Co., Liverpool	-	-	14	273
Donaldson, Bros., Glasgow	-	-	14	274
Ducal Line, London	-	-	9	60
Duncan, G. and Co., London	-	-	14	275
Dundee Clipper Line, Dundee	-	-	14	276
Durham (Earl of) and H. T. Morton, Sunderland			9	61

## E.

Eastern and Australian Mail Steam Co., London	-	-	9	62
Eastern Steam Ship Co., London	-	-	9	63
Eccles, E., Newcastle	-	-	9	64
Edmiston and Mitchell, Glasgow	-	-	14	277
Edwards, Cardiff and New York Line, Cardiff	-	-	9	65
Edwards, H. S., Shields	-	-	9	66
EGYPT for Men-of-War	-	-	2	
Elder, Dempster and Co., London	-	-	9	67
Elder Line, London	-	-	14	278
Elliott, Lowry and Dunford, Newcastle	-	-	9	68
Ellis, H. and Son, London	-	-	14	279
ENGLISH NATIONAL FLAGS	-	-	1	
„ „ for Mercantile Marine	-	-	4 & 5	
ECUADOR for Men-of-War	-	-	3	
Ewing, J. and Co., Glasgow	-	-	14	280



	F.	Page.	No. of Flag.
Falk, H. E., Liverpool	-	9	69
Farnworth and Jardine, Liverpool	-	14	281
Fenwick and Co., London	-	9	70
Fenwick, J. and Sons, London	-	9	71
Fernie, H. and Sons, Liverpool	-	14	282
Fisher, Renwick and Co., Newcastle	-	9	72
Fisher and Sprott, London	-	14	283
Fletcher, G. H. and Co., Liverpool	-	9	73
Fog Signals	-	6	
Foley, Aikman and Co., London	-	14	284
Forenede Dampskibs Selskab, Copenhagen	-	9	74
Forwood, Paton and Co., Liverpool	-	9	75
FRANCE for Men-of-War	-	2	
„ for Mercantile Marine	-	4	
Friend, E. C. and Co., Liverpool	-	14	285

## G.

Garbutt, D. P., Hull	-	9	76
Gellatley, Hankey, Sewell, and Co., London	-	14	286
General Shipping Co., Glasgow	-	14	287
General Steam Navigation Co., London	-	9	77
GERMANY for Men-of-War	-	2	
„ for Mercantile Marine	-	4	
Gilchrist, R. and Co., Liverpool	-	11	132
Gillison and Chadwick, Liverpool	-	14	288
Glasgow, Belfast, Liverpool Mail, Glasgow	-	9	78
Glasgow and Highlands Steam Ship Co., Glasgow	-	9	79
Glasgow Shipping Co., Glasgow	-	14	289
Glen Line	-	11	139
Globe Steam Ship Co., London	-	9	80
Glover Bros., London	-	10	81



			Page	No. of Flag.
Glynn, J. and Son, Liverpool	-	-	10	82
Goodyear and Co., Liverpool	-	-	14	290
Goole Steam Ship Co., Goole	-	-	10	83
Gordon and Stamp, Sunderland	-	-	10	84
Gourley, E. T. and Co., Sunderland	-	-	10	85
Graves, S. R. and Sons, Liverpool	-	-	14	291
Gray, W. and Co., West Hartlepool	-	-	10	86
Great Eastern Railway Co., London	-	-	10	87
Great Western Railway Co., London	-	-	10	88
Great Western Steam Ship Co., Bristol	-	-	13	234
GREECE, for Men-of-War	-	-	2	
„ for Mercantile Marine	-	-	4	
Green, F. and Co., London	-	-	10	89
Greenock Steam Ship Co., Greenock	-	-	10	90
Groves, Maclean, and Co., West Hartlepool	-	-	10	91
GUATEMALA for Mercantile Marine	-	-	5	
Guion Line, Liverpool	-	-	10	92

## H.

Hall, Bros., Newcastle	-	-	{ 10 14	93 292
Hall, J. and Co., Newcastle	-	-	10	94
Hall, John Junr., and Co., London	-	-	10	95
Hall Line, Liverpool	-	-	{ 8 10	5 96
HAITI for Men-of-War	-	-	3	
„ for Mercantile Marine	-	-	5	
Hamburg Amerikaasche actien Gessellschaft, Hamburg	-	-	} 10	97
Hamilton, Fraser and Co., Liverpool	-	-	10	98
Hankey, T. and Co., London	-	-	14	293
Hardie, T. and Co., Glasgow	-	-	14	261
Hargrove and Hellon, Liverpool	-	-	14	294



			Page.	No. of Flag.
Harper and Co., Southampton	-	-	10	99
Harris and Dixon, London	-	-	10	100
Harrison, T. and Co., Liverpool	-	-	14	295
Harrison, T. and J., Liverpool	-	-	10	101
Harrowing, R., Whitby	-	-	10	102
Hatfield, Cameron and Co., Glasgow	-	-	14	246
Heap, J. and Sons, Liverpool	-	-	14	296
Henderson Bros., Glasgow	-	-	8	8
Henderson, P. and Co., Glasgow	-	{	8 10	23 115
Herskind, F., West Hartlepool	-	-	10	103
Herron, John, Liverpool	-	-	14	297
Hill, C. and Sons, Bristol	-	-	10	104
Hine Bros., Maryport	-	-	10	105
HOLLAND for Men-of-War	-	-	2	
„ for Mercantile Marine	-	-	4	
Holman, J. and Sons, London	-	-	10	106
Holt, A., Liverpool	-	-	10	107
Hope Bros., Liverpool	-	-	14	298
Horsley, G., West Hartlepool	-	-	10	108
Hough, E. J. and Co., London	-	-	10	109
Hudson, R. M., Sunderland	-	-	10	110
Hudson, T. S., West Hartlepool	-	-	10	111
Hunting and Pattinson, Newcastle	-	-	10	112
Huntley, Berner, and Co., West Hartlepool	-	-	10	113
I.				
Inman Line, Liverpool	-	-	10	114
International Code	-	-	5	
Iredale, P. and Son, Liverpool	-	-	14	299
Irrawaddy Flotilla Co., Glasgow	-	-	10	115



		Page.	No. of Flag.
Irvine, R. and Co., West Hartlepool	-	10	116
Ismay, Imrie and Co., Liverpool	-	{ 13 14	233 300
Italian Lloyd, Genoa	-	10	117
ITALY for Men-of-War	-	2	
„ for Mercantile Marine	-	4	

## J.

Jackson, Beaumont and Co., Hull	-	10	118
Jackson Bros. and Cory, London	-	10	119
Jacobs, J. T. and Co., London	-	15	301
JAPAN for Men-of-War	-	3	
„ for Mercantile Marine	-	5	
Jenkins, D. J. and Co., London	-	10	120
Johnstone, Sproule and Co., Liverpool	-	15	302
Johnston, W. and Co., Liverpool	-	11	121

## K.

Kellock, G. W. and Co., Liverpool	-	15	303
Kerr, J. and Co., Greenock	-	15	304
Kerr, Newton and Co., Glasgow	-	15	305
Kidston, C. J., Glasgow	-	9	44
Killick Martin, London	-	15	306
King, R. and W., Bristol	-	15	307
Kish, T., Sunderland	-	11	122
Koninklyke Nederlandsche Stoomboot Maatschappy, Amsterdam	-	{ 11	123
Krupp Fried, Essin	-	11	124



	L.		Page.	No. of Flag.
Laing, W. and Co., Leith	-	-	11	125
Laird, A. A. and Co., Glasgow	-	-	11	126
Lamport and Holt, Liverpool	-	-	11	127
Lancaster Shipowners Co., Liverpool	-	-	15	308
Langlands, M. and Sons, Glasgow	-	-	11	128
Law, T. and Co., Glasgow	-	-	15	309
Leadenhall Line, London	-	-	15	310
Leech, Harrison and Forwood, Liverpool	-	-	8	14
Leith, Hull, and Hamburg Steamship Co., Leith	-	-	11	129
Lennard, J. M. and Son, Middlesbro'	-	-	11	130
Leyland, R. W. and Co., Liverpool	-	-	11	131
Lidgett, J. and Sons, London	-	-	15	311
Light Ships	-	-	7	
Liverpool Traders, Liverpool	-	-	11	132
Liverpool and Valparaiso Line, Liverpool	-	-	15	353
Lofthouse, C. M. and Co., Hull	-	-	11	133
London Brighton and S. C. Railway Co., London	-	-	11	134
London Chatham and Dover Railway Co., London	-	-	11	135
London North Western Railway Co., London	-	-	11	136
London Steam Boat Co., London	-	-	11	137
Lowden, Edgar and Co., Liverpool	-	-	15	312
Lumsden, Byers and Co., Sunderland	-	-	11	138
Lyle, A. and Sons, Greenock	-	-	15	313

**M.**

Mc.Brayne, D., Glasgow	-	-	9	79
Mc.Corkell, W. and Co., Londonderry	-	-	15	314
Mc.Diarmid, Greenshields & Co. London	-	{	9 15	60 315
Mc.Gregor, Gow and Co., London	-	-	11	139



			Page.	No. of Flag.
Mc.Intyre Bros., Newcastle	-	-	11	140
Mc.Ilwraith, MacEacharn and Co., London	-	-	15	316
Mc.Kinnon, Frew and Co., Liverpool	-	-	15	317
Mc.Laren, Crum and Co., Glasgow	-	-	11	141
Marshall, George and Sons, London	-	-	11	142
Marwood, T. and Sons, Whitby	-	-	11	143
Massey and Sawyer, Hull	-	-	11	144
Mercantile Steam Ship Co., London	-	-	11	145
Merchant Shipping Co., London	-	-	15	318
Merchant Trading Co., Liverpool	-	-	15	319
Merchant's Trading Co., Liverpool	-	-	11	146
Mersey Steam Ship Co., Liverpool	-	-	11	147
MEXICO for Men-of-War	-	-	3	
„ for Mercantile Marine	-	-	5	
Messageries Maritimes, Marseilles	-	-	11	148
Middle Dock Co., S. Shields	-	-	11	149
Millburn Bros., Newcastle	-	-	11	150
Millburn W. and Co., London	-	-	11	151
Milvain, W. and Sons, Gateshead	-	-	15	320
Mississippi and Dominion Steam Ship Co., Liverpool	-	-	11	152
Monarch Line, London	-	-	12	173
Montgomerie and Workman, London	-	-	15	321
Moran and Sanderson, Hull	-	-	11	153
Morel, Bros. and Co., Cardiff	-	-	11	154
MOROCCO for Men-of-War	-	-	3	
„ for Mercantile Marine (Tunis and Zanzibar)	-	-	5	
Morrison, J. and Son, N. Shields	-	-	11	155
Moss Steam Ship Co., Liverpool	-	-	11	156
Mudie, R. A. and Sons, Dundee	-	-	11	157
Murray Brothers & Co., Dundee	-	-	8	35



	N.		Page.	No. of Flag.
National Line, Liverpool	-	-	11	158
Nelson and Co., Liverpool	-	-	15	322
Nelson, Donkin, and Co., Newcastle	-	-	11	159
Netherlands, American Steam Nav. Co., Rotterdam	-	-	11	160
Netherlands, India Steam Navigating Co., Batavia	-	-	12	161
New York, London, and China Co., London	-	-	12	162
New Zealand Shipping Co., London	-	-	15	323
Newton, J. D. & Co., Liverpool	-	-	14	268
Nicol, W. and Co., Liverpool	-	-	15	324
Nicholson, R. and Sons, Liverpool	-	-	{ 15 12	{ 325 163
Nicholson and McGill, Liverpool	-	-	15	326
Norddeutcher Lloyd, Bremen	-	-	12	164
NORWAY for Men-of-War	-	-	2	
„ for Mercantile Marine	-	-	4	
Norwood, C. M. and Co., London	-	-	12	165
Nourse, J., London	-	-	15	327

## O.

Optional Signals	-	-	6	
Olano Larrinaga and Co., Liverpool	-	-	12	166
Orient Steam Navigation Co., London	-	-	12	167
Original Clan Line, Glasgow	-	-	15	328

## P.

Pacific Mail S. S. Co., London	-	-	12	168
Pacific Steam Navigation Co., Liverpool	-	-	12	169
Palgrave, Murphy, and Co., Dublin	-	-	12	170
P. and O. Steam Navigation Co., London	-	-	12	171







			Page.	No. of Flag.
Robinson, J. and Co., N. Shields	-	-	12	184
Rome, W., Liverpool	-	-	15	334
Ropner, R. and Co., W. Hartlepool	-	-	12	185
Ross, W. H. and Co., Liverpool	-	-	12	186
Royal Standard of England	-	-	1	
ROUMANIA for Men-of-War	-	-	2	
Royal Mail S. Navigation Co., London		-	12	187
Royal Netherlands S. Navigation Co.		-	13	208
Roxburgh, J. and A., Glasgow		-	15	335
Royden, T. and Sons, Liverpool	-	-	15	336
Rubattino and Co., Genoa	-	-	12	189
RUSSIA for Men-of-War	-	-	2	
„ for Mercantile Marine	-	-	4	
Russian S. Navigation Co., Odessa	-	-	12	190
Ruys and Sons, Rotterdam	-	-	12	191

**S.**

SAN DOMINGO for Men-of-War	-	-	3	
„ „ for Mercantile Marine	-	-	5	
Sandbach, Tinne, and Co., Liverpool	-	-	15	337
SANDWICH ISLANDS for Men-of-War	-	-	3	
Senior Officer's Pendant	-	-	1	
Shadforth, R. and Co., Sunderland	-	-	12	192
Shallcross and Higham, Liverpool	-	-	15	338
Shaw, Bushby, and Co., London	-	-	12	193
Shaw, Maxton, and Co., London	-	-	12	194
Shaw, Savill, and Co., London	-	-	15	339
Shepherd, J. and Co., London	-	-	15	340
Shotton Edw. and Co., N. Shields	-	-	12	196
Shotton Thos., N. Shields	-	-	12	195
SIAM for Men-of-War	-	-	3	



			Page.	No. of Flag.
Signals of Distress	-	-	6	
Sinclair, W. P. and Co., Liverpool	-	-	15	341
Singlehurst, R. and Co., Liverpool	-	-	12	197
Skinner, T. and Co., Glasgow	-	-	12	198
Smith, G. and Sons, Glasgow	-	-	8	40
		-	15	342
Smith, Hill and Co., Hull	-	-	12	199
Smith, T. and W., Newcastle	-	-	12	200
Soc de Nav. Royale Belge Sud Americane, Antwerp	-	-	13	201
South Eastern Railway Co., London	-	-	13	202
SPAIN for Men-of-War	-	-	2	
„ for Mercantile Marine	-	-	4	
Spartali, A. and Co., London	-	-	13	203
Stallybrass, C. E., Cardiff	-	-	13	204
Star Line, Liverpool	-	-	12	181
State Steam Ship Co., Glasgow	-	-	13	205
Steel, J. and Son, Liverpool	-	-	15	343
Steel, Young, and Co., London	-	-	13	206
Stephens and Mawson, Newcastle	-	-	13	207
Stoddart Bros., Liverpool	-	-	12	180
Stoomvaart Maatschappy, Nederland, Amsterdam	-	-	13	208
Strong, A., Newcastle	-	-	13	209
Strong, Reid and Page, Liverpool	-	-	13	210
Stumore, Weston and Co., London	-	-	13	217
Swansea Merchant's Shipowners Co., Swansea	-	-	15	344
SWEDEN for Men-of-War	-	-	2	
„ for Mercantile Marine	-	-	4	
Swire, John and Sons, London	-	-	13	211



# *Index.*

T.	Page.	No. of Flag.
underland -	13	212
Co. Liverpool -	13	213
Sunderland -	13	214
1 Darke, London -	15	345
-	13	215
Newcastle -	13	216
Co., Glasgow -	15	346
ie -	15	347
lasgow -	15	348
and Co., Liverpool -	15	349
., London -	15	350
-	13	217
Co., London -	14	278
Co., Glasgow -	13	218
Whitby -	13	219
War -	2	
tile Marine -	4	
Gateshead -	13	220
London -	15	351

## U.

Belfast -	13	221
-	1	
Southampton -	13	222
of New Zealand, Dunedin -	13	223
ndon -	13	224
F AMERICA for Men-of-War -	2	
„ for Mercantile Marine	4	
f-War -	3	

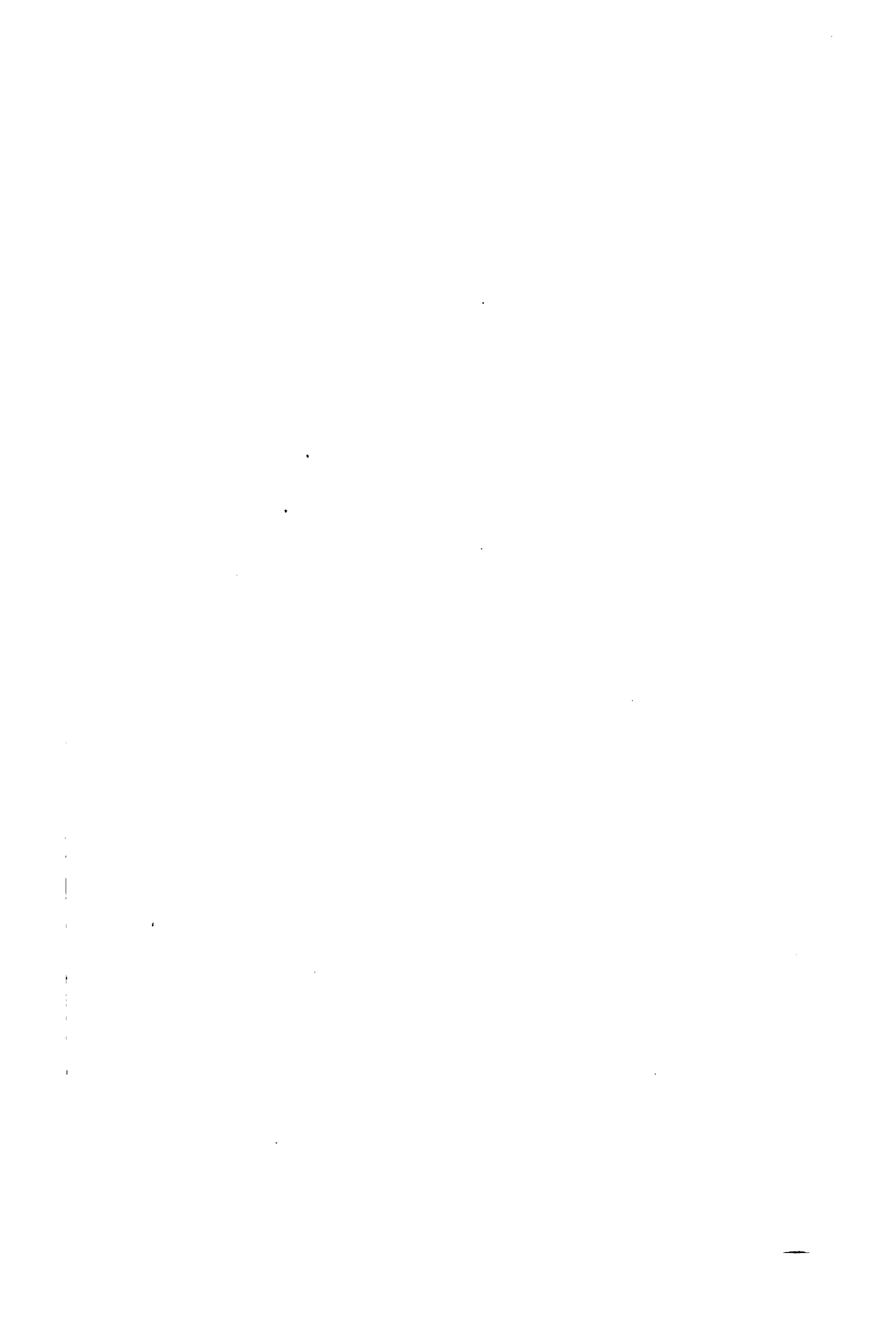


			Page.	No. of Flag.
<b>V.</b>				
VENEZUELA for Men-of-War	-	-	3	
Vessels' Lights	-	-	7	
<b>W.</b>				
Wait, J. and J., Newcastle	-	-	13	225
Walmsley, J. B. and Co., Liverpool	-	-	15	352
Wakeham, S. and Son, Liverpool	-	-	15	353
Warrack, J. and Co., Leith	-	-	13	226
Warren, G. and Co., Liverpool	-	-	13	227
Wätjen, D. H. and Co., Bremen	-	-	15	354
Watson, Bros., Glasgow	-	-	15	355
Watts, Ward, and Co., London	-	-	13	228
West Hartlepool S. Navigation Co., W. Hartlepool	-	-	13	229
West Indies Pacific Steam Ship Co., Liverpool	-	-	13	230
Westoll, James, Sunderland	-	-	13	231
White Cross Line	-	-	13	232
White Ensign	-	-	1	
White Star Line, Liverpool	-	-	13	233
Whitwill, (Mark) and Son, Bristol	-	-	13	234
Wigram, (Money) and Sons, London	-	-	13	235
Wilkie and Turnbull, N. Shields	-	-	13	236
Wilkinson, Watt, and Co., W. Hartlepool	-	-	13	237
Williams, T. and Co., Liverpool	-	-	15	356
Williamson, C., Leith	-	-	13	238
Williamson, Milligan, and Co., Liverpool	-	-	15	357
Willis, J. and Co., London	-	-	15	358
Wilson, J. and R., Glasgow	-	-	15	359
Wilson Line Hull	-	-	13	239
Wright, W. and R., Liverpool	-	-	15	360
<b>Y.</b>				
Young, C. O. and Christies, Cardiff	-	-	13	240
Young, Ehlers and Co.	-	-	9	47





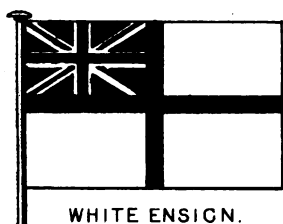
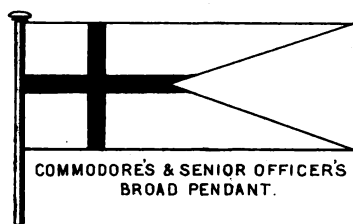
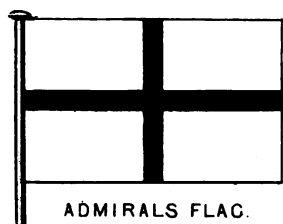
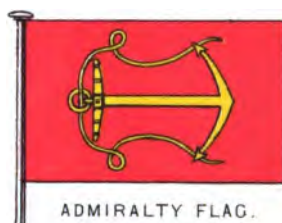
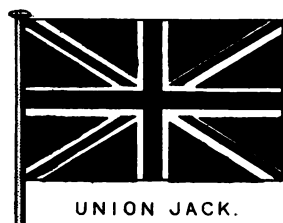
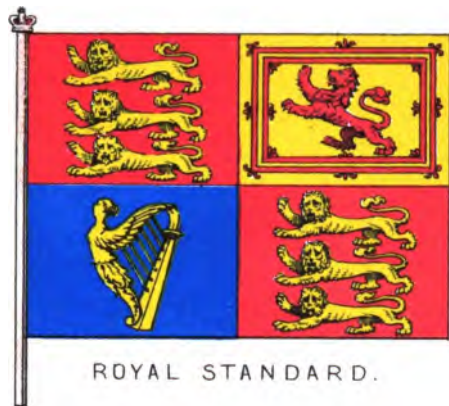


















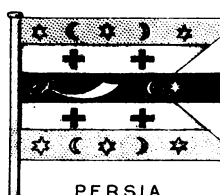
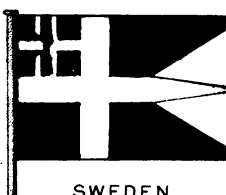
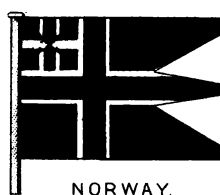
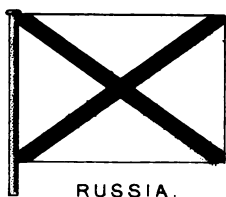
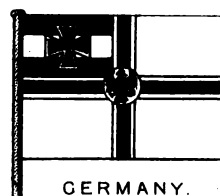
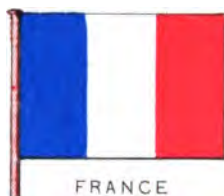








## NATIONAL ENSIGNS FOR MEN OF WAR.









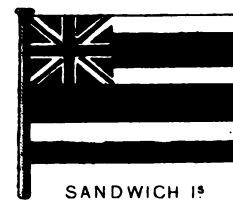
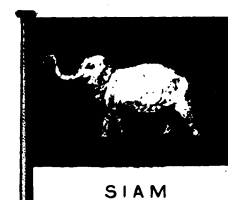
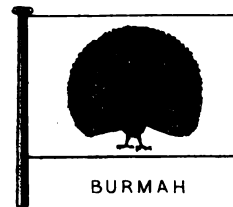
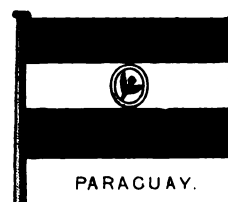
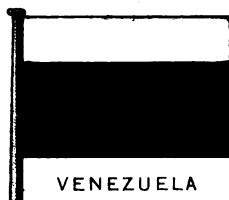
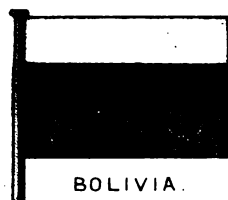
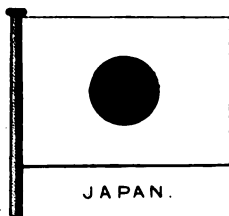








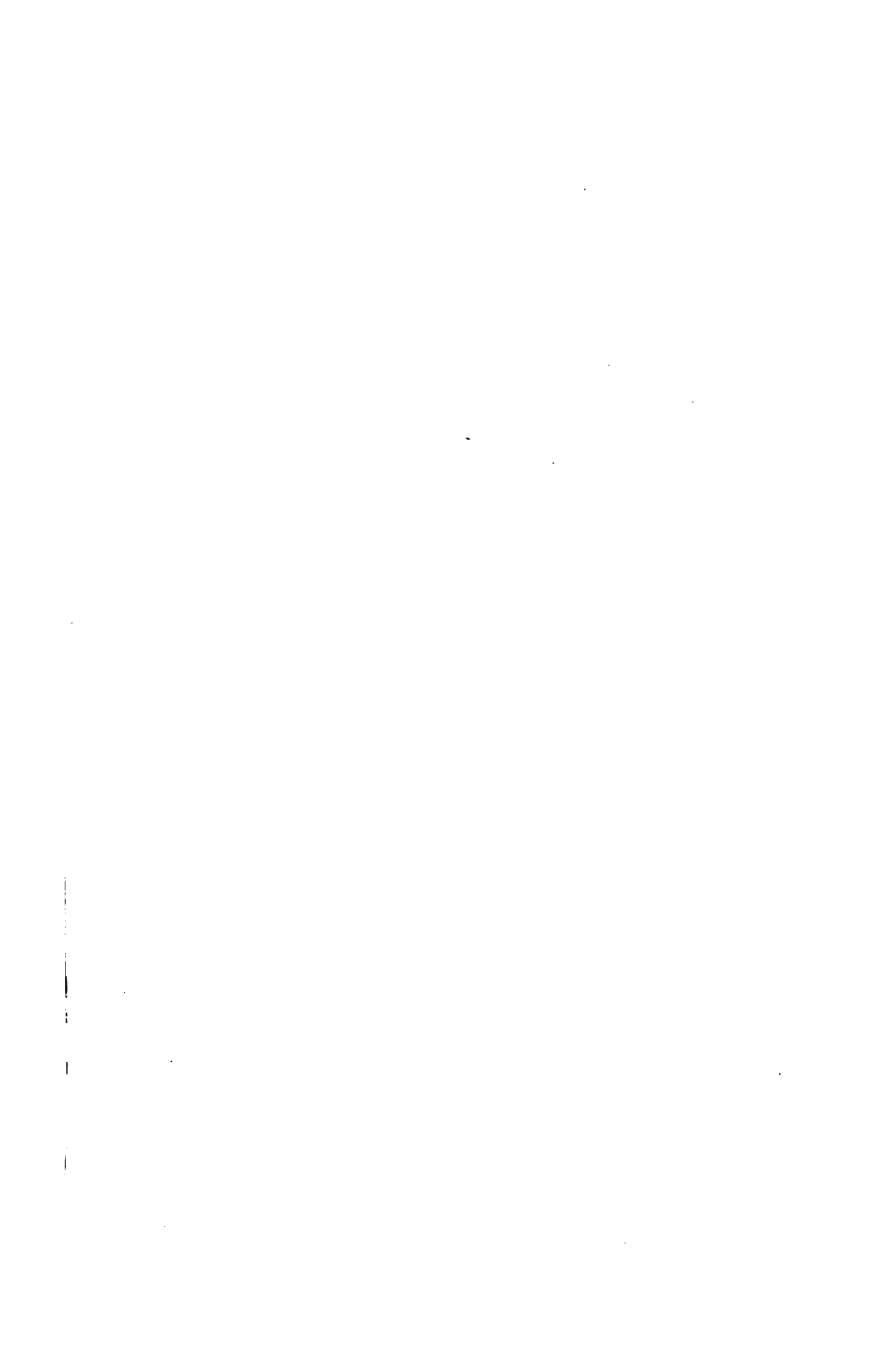
## NATIONAL ENSIGNS FOR MEN OF WAR.









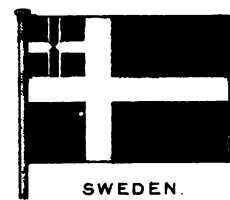
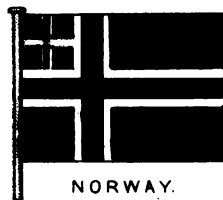
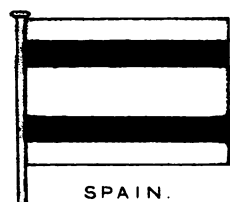
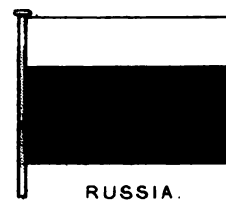
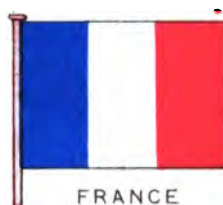








## NATIONAL COLOURS FOR MERCANTILE MARINE.









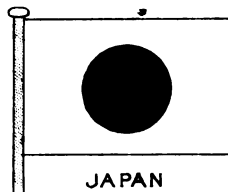
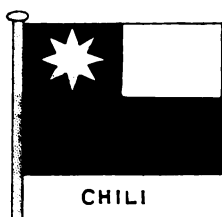




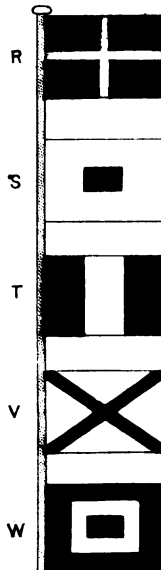
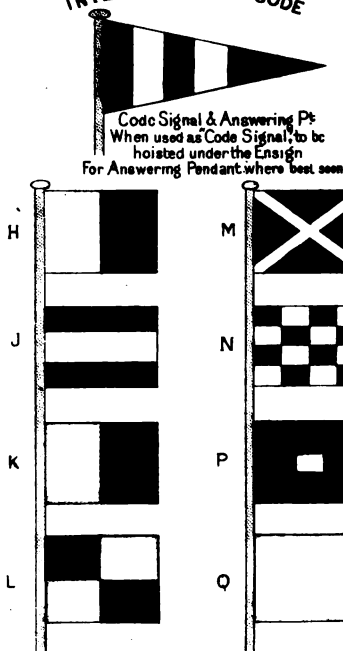
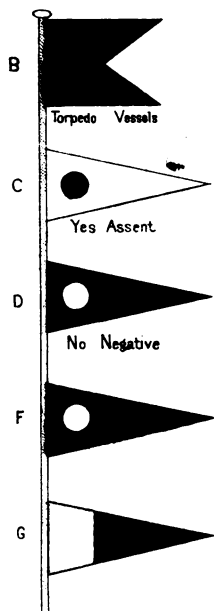




# NATIONAL COLOURS FOR MERCANTILE MARINE.



## INTERNATIONAL CODE













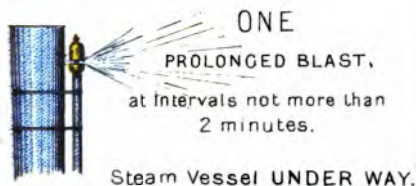




## FOG SIGNALS.

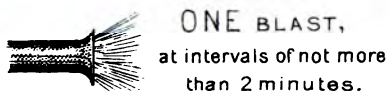
### STEAM VESSEL

STEAM WHISTLE



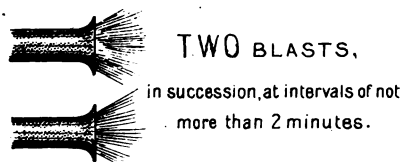
### SAILING VESSEL

FOG HORN



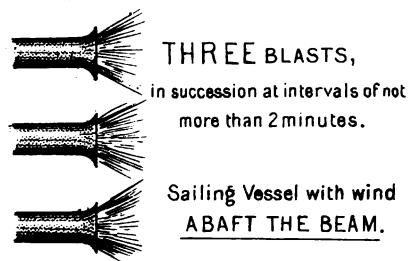
Sailing Vessel on STARBOARD tack.

FOG HORN



Sailing Vessel on PORT tack.

FOG HORN



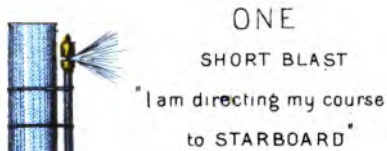
A BELL,  
rung at intervals of not  
more than 2 minutes.

Steam or Sailing Vessel  
when NOT under weigh.

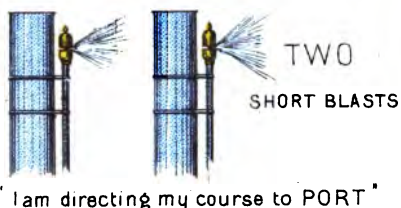
## OPTIONAL SIGNALS;

by a Steam Vessel under way.

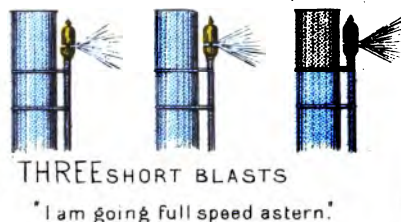
STEAM WHISTLE



STEAM WHISTLE



STEAM WHISTLE



## SIGNALS OF DISTRESS.



or



or



FLAMES ON THE SHIP.  
(as from a burning tar barrel  
or oil barrel &c.)



DISTANT SIGNAL  
Any Flag and Ball  
or anything  
resembling a Ball







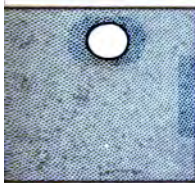
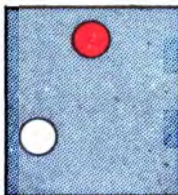
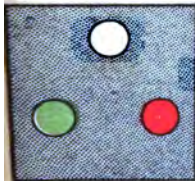
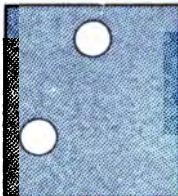

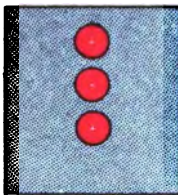
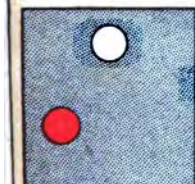
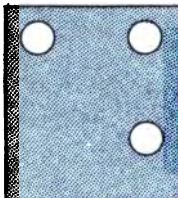
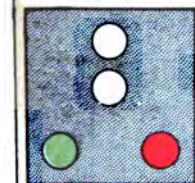
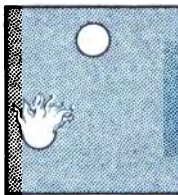
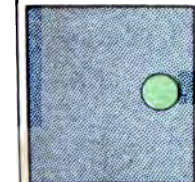
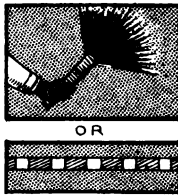
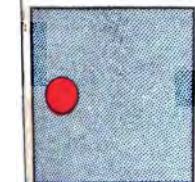








# VESSELS' LIGHTS AS SEEN BY A LOOK-OUT-MAN.

	Vessel at Anchor, or Vessel overtaken by another.		Trawling Vessel,  (under revision)
	Steam Vessel under way <u>BOWS ON.</u>		Drift Net Fishing Vessel. (A flare up in addition is optional ).
	Steam Vessel moving towards the <u>RIGHT.</u>		Steam or Sailing Vessel not under command, in consequence of any accident & therefore unable to get out of the way. or Vessel laying or picking up a Telegraph Cable.
	Steam Vessel moving towards the <u>LEFT.</u>		Wreck marking Vessel.  The wreck is on the side with one light,  The channel is clear on the side where two lights are displayed.
	Steam Vessel, with another vessel in tow <u>BOWS ON.</u>		Pilot vessel on Pilotage duty.  A flare-up at short intervals which shall never exceed 15 minutes.
	Sailing Vessel moving towards the <u>RIGHT.</u>		Vessel wanting a Pilot. Blue light every 15 minutes, or White light flashed at short or frequent intervals for about a minute at a time.
	Sailing Vessel moving towards the <u>LEFT.</u>		











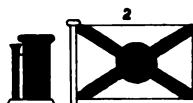




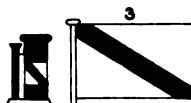
## STEAM VESSELS



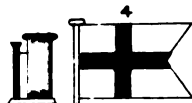
ADAM, HAMILTON & CO  
GREENOCK.



ADAMSON & RONALDSON.  
LONDON.



ADAMSON & SHORT.  
N. SHIELDS.



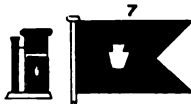
AFRICAN STEAM SHIP CO  
LONDON.



ALEXANDER & RADCLIFFE.  
HALL LINE.  
LIVERPOOL.



ALLAN LINE.  
GLASGOW.



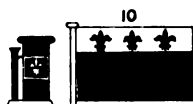
AMERICAN S.S. CO  
LONDON.



ANCHOR LINE.  
HENDERSON BROS  
GLASGOW.



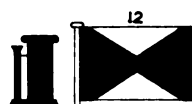
ANDERSON, MORAN & CO  
SUNDERLAND.



ANGIER BROS  
LONDON.



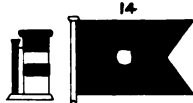
ANGLO-EGYPTIAN NAV. CO  
LONDON.



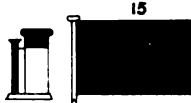
APCAR & CO  
CALCUTTA.



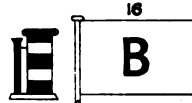
ASIATIC STM NAV CO  
LIVERPOOL.



ATLAS LINE.  
LEECH, HARRISON & FORWOOD.  
LIVERPOOL.



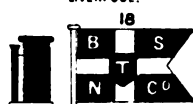
AUSTRALASIAN S. NAV. CO  
SYDNEY.



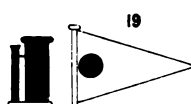
JOHN BACON.  
LIVERPOOL.



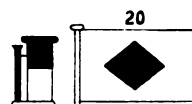
BAILEY & LEEHAM.  
HULL.



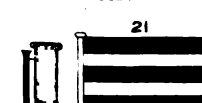
BEDOUIN STEAM NAV CO  
LIVERPOOL.



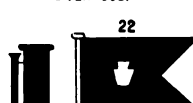
BELFAST S. S. CO  
BELFAST.



BLUE DIAMOND LINE.  
NAV & CO  
LIVERPOOL.



BLYTHER BROS  
LIVERPOOL.



BRITISH & AFRICAN.  
STEAM NAV CO  
GLASGOW.



BRIT & BURMESE S. NAV. CO LIM.  
P. HENDERSON & CO  
GLASGOW.



BRITISH INDIA, STEAM, NAV CO  
LONDON.



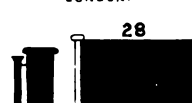
BRITISH & IRISH STEAM PNT CO LIM.  
DUBLIN.



BROWN, ATKINSON & CO  
HULL.



BURMAN S. S. CO  
GREENOCK.



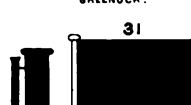
BURNS & M'IVER.  
LIVERPOOL.



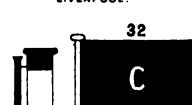
BURRELL & SON.  
GLASGOW.



CANADA SHIPPING CO  
MONTREAL.



CAPPER, ALEXANDER & CO  
LONDON.



F. CARVILL & SON.  
LIVERPOOL.



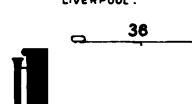
D. CAY & CO  
GLASGOW.



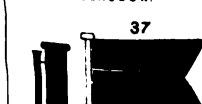
M. CAY & CO  
N. SHIELDS.



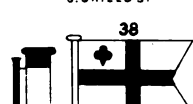
CHANNEL LINE.  
MURRAY BROS & CO



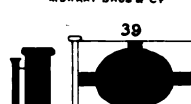
CHINA NAV. CO  
LONDON.



CHINA TRANS. PACIFIC S.S. CO  
LONDON.



CITY OF CORK S. PNT CO  
CORK.



CITY OF DUBLIN S. PNT. CO  
DUBLIN.

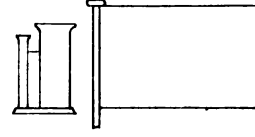
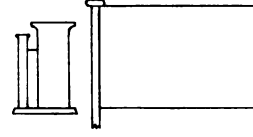
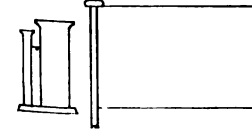
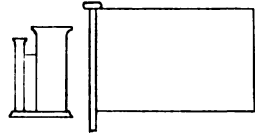
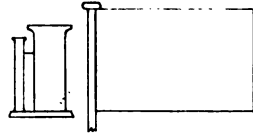
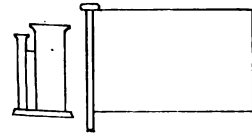
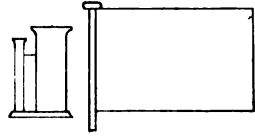
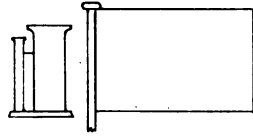
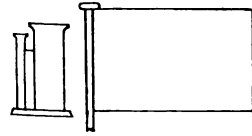
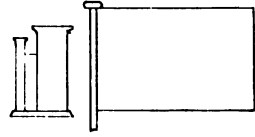
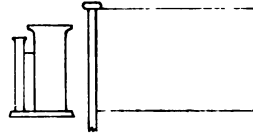
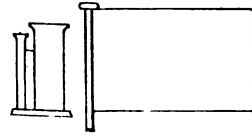
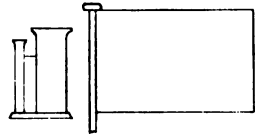
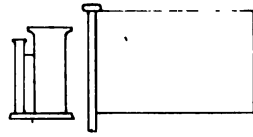
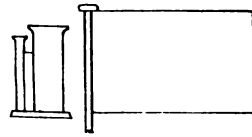
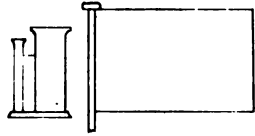
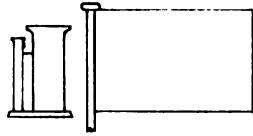
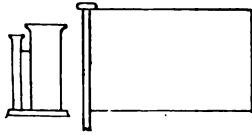
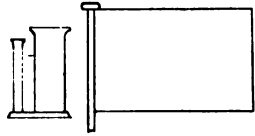
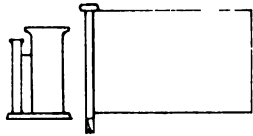
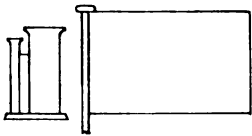
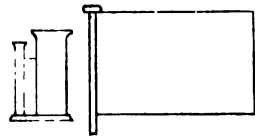
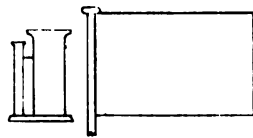


CITY LINE.  
C. SMITH & SONS.  
GLASGOW.











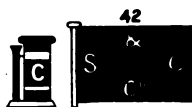




## STEAM VESSELS



41  
CLAN LINE.  
CAYZER, IRVINE & CO  
GLASGOW.



42  
H. CLAPHAM & CO  
NEWCASTLE.



43  
STEPHENSON, CLARK & CO  
LONDON.



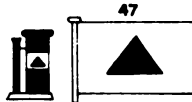
44  
CLYDE SHIPPING CO.  
G.J. KIDSTON,  
GLASGOW.



45  
A. M. COHEN,  
NEWCASTLE.



46  
COLLINGS & CO.  
LONDON.



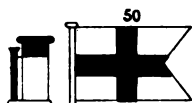
47  
COMMERCIAL S.S. CO. LINE,  
YOUNG, ERLER & CO



48  
Cie Cie  
Transatlantique  
COMPAGNIE GENERALE  
TRANSATLANTIQUE,  
PARIS.



49  
COMPANIA TRASATLANTICA  
BARCELONA.



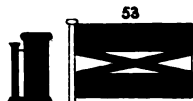
50  
CORE S.S. CO. LIM.  
CORK.



51  
E. CORY & CO  
W. HARTLEPOOL.



52  
DOVERDALE, TODD & CO.  
HARTLEPOOL.



53  
R. J. GRAIG,  
GLASGOW.



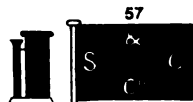
54  
GULLIFORD & CLARK,  
SUNDERLAND.



55  
DUNARD LINE,  
(BURNS & McIVER)  
LIVERPOOL.



56  
DONALD CURRIE & CO.  
LONDON.



57  
E. M. DE BUSCHE,  
LONDON.



58  
DIXON & WILSON,  
SUNDERLAND.



59  
W. H. DIXON,  
LIVERPOOL.



60  
DUGAL LINE,  
MR DIARMID, GREENIELDS & CO  
LONDON.



61  
EARL OF DURHAM &  
M. T. MORTON,  
SUNDERLAND.



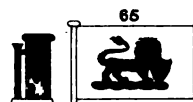
62  
EASTERN & AUSTRALIAN  
MAILS, CO. LIM.  
LONDON.



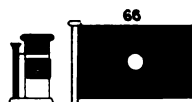
63  
EASTERN S. S. CO  
LONDON.



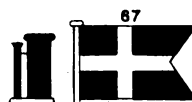
64  
E. ECCLES,  
NEWCASTLE.



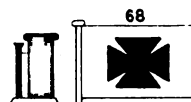
65  
EDWARDS'S  
CARDIFF & N. YORK LINE,  
CARDIFF.



66  
H. S. EDWARDS,  
SHIELDS.



67  
ELDER, DEMPSTER & CO  
LONDON.



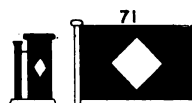
68  
ELLIOTT, LOWREY & DUNFORD,  
NEWCASTLE.



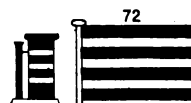
69  
H. E. FALK,  
LIVERPOOL.



70  
FENWICK & CO  
LONDON.



71  
J. FENWICK & SONS,  
LONDON.



72  
FISHER, FENWICK & CO  
NEWCASTLE.



73  
G. H. FLETCHER & CO.  
COMPANIA LA FLECHA,  
LIVERPOOL.



74  
FORENEDE DAMPSKIBS SELSKAB,  
COPENHAGEN.



75  
FORWOOD, PATON & CO  
LIVERPOOL.



76  
D. P. GARRUTT,  
HULL.



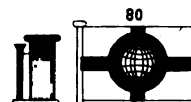
77  
GENERAL STEAM NAVY, CO  
LONDON.



78  
GLASGOW, BELFAST  
& LIVERPOOL MAIL S. S.  
GLASGOW.



79  
GLASGOW & HIGHLANDS S. S.  
D. MAC BRATNE  
GLASGOW.



80  
GLOBE S. S. CO  
LONDON.







## A 10x3 grid of blank lined paper. Each sheet has a vertical margin line on the left side. In the left margin of each sheet, there is a small illustration of a person sitting at a desk, writing. The rest of the page is blank and lined.







## STEAM VESSELS



81  
GLOVER BROS.,  
LONDON.



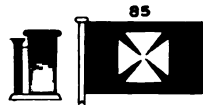
82  
J. GLYNN & SON,  
LIVERPOOL.



83  
GOOLE & S. CO.,  
GOOLE.



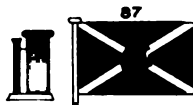
84  
GOYDON & STAMP,  
SUNDERLAND.



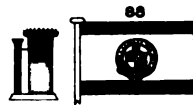
85  
E. T. GOURLEY & CO.,  
SUNDERLAND.



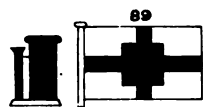
86  
W. GRAY & CO.,  
W. HARTLEPOOL.



87  
GREAT EASTERN RAILY CO.,  
LONDON.



88  
GREAT WESTERN RAILY CO.,  
LONDON.



89  
F. GREEN & CO.,  
BLACKWALL LINE,  
LONDON.



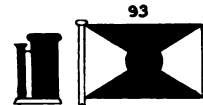
90  
GREENOCK & S. CO. LMT  
GREENOCK.



91  
GROVES, MACLEAN & CO.,  
W. HARTLEPOOL.



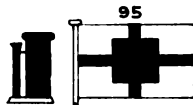
92  
GUION LINE,  
LIVERPOOL.



93  
HALL BROS.,  
NEWCASTLE.



94  
J. HALL & CO.,  
NEWCASTLE.



95  
JOHN HALL JUN. & CO.,  
LONDON.



96  
HALL LINE  
ALEXANDER & RADCLIFFE



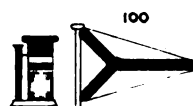
97  
HAMBURGH AMERIKAN,  
PAKETFAHRT. ACT. GESEL.  
HAMBURGH.



98  
HAMILTON FRASER & CO.,  
LIVERPOOL.



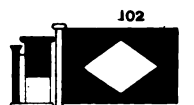
99  
HARPER & CO.,  
SOUTHAMPTON.



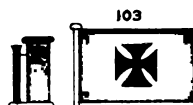
100  
HARRIS & DIXON,  
LONDON.



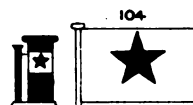
101  
T. J. HARRISON,  
LIVERPOOL.



102  
R. HARROWING.,  
WHITBY.



103  
P. HERSKIND,  
W. HARTLEPOOL.



104  
C. HILL & SONS,  
BRISTOL.



105  
HINE BROS.,  
MARYPORT.



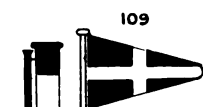
106  
J. HOLMAN & SONS,  
LONDON.



107  
A. HOLT,  
LIVERPOOL.



108  
G. HORBLEY,  
W. HARTLEPOOL.



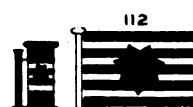
109  
E. J. HOUGH & CO.,  
LONDON.



110  
R. M. HUDSON,  
SUNDERLAND.



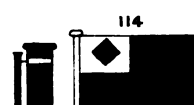
111  
T. B. HUDSON,  
W. HARTLEPOOL.



112  
HUNTING & PATTERSON,  
NEWCASTLE.



113  
HUNTLEY, BERNER & CO.,  
W. HARTLEPOOL.



114  
INMAN LINE,  
LIVERPOOL.



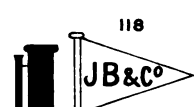
115  
IRRAWADDY FLOTILLA CO.,  
P. HENDERSON & CO.,  
GLASGOW.



116  
R. IRVINE & CO.,  
W. HARTLEPOOL.



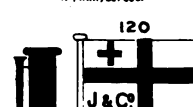
117  
ITALIAN LLOYD,  
GENOA.



118  
JACKSON, BEAUMONT & CO.,  
MULL.



119  
JACKSON BROS. & CO.,  
LONDON.

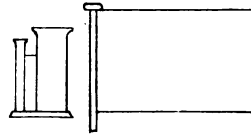
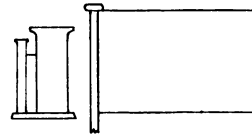
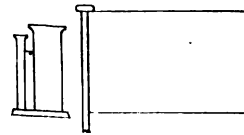
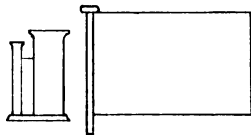
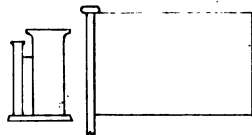
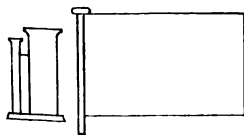
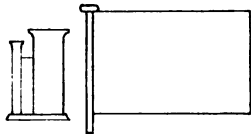
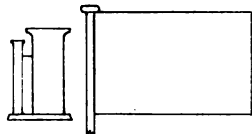
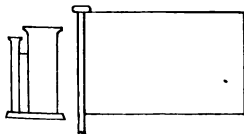
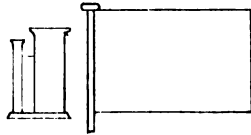
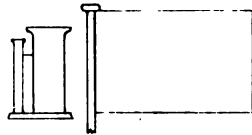
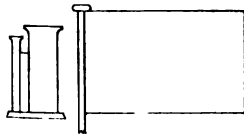
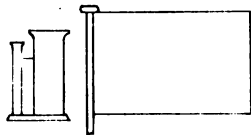
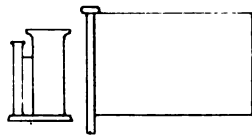
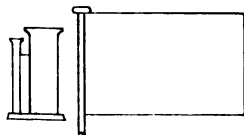
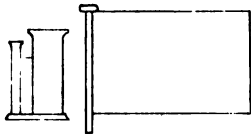
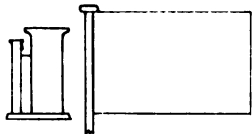
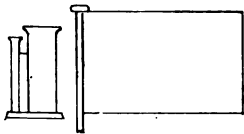
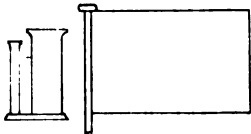
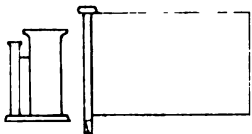
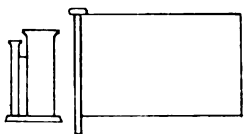
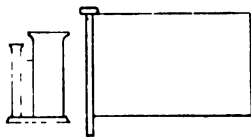
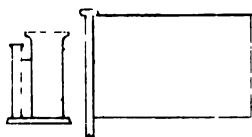


120  
D. J. JENKINS & CO.,  
LONDON.







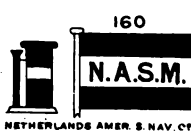
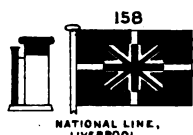
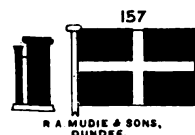
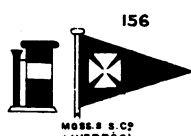
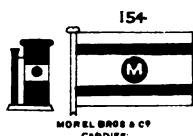
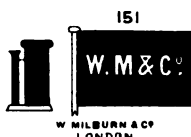
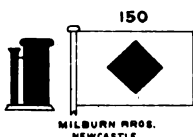
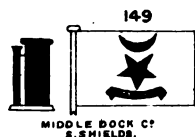
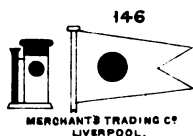
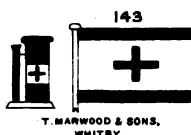
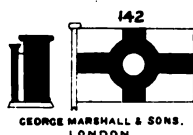
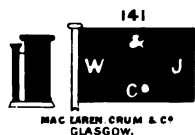
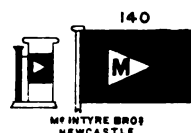
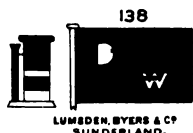
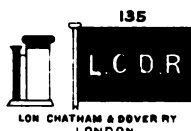
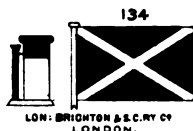
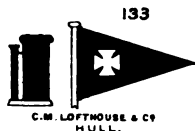
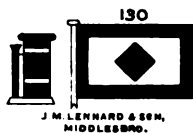
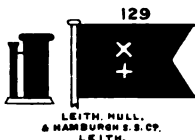
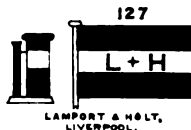
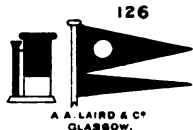
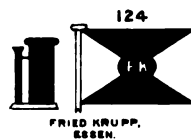








## STEAM VESSELS

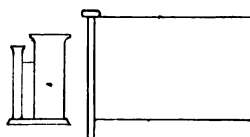
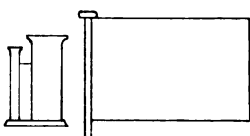
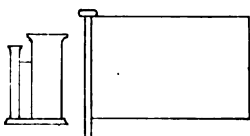
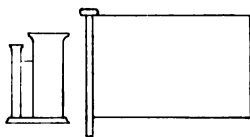
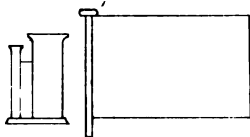
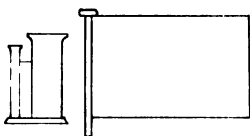
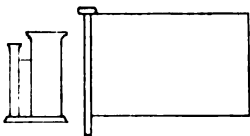
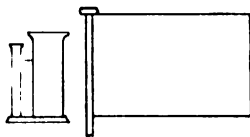




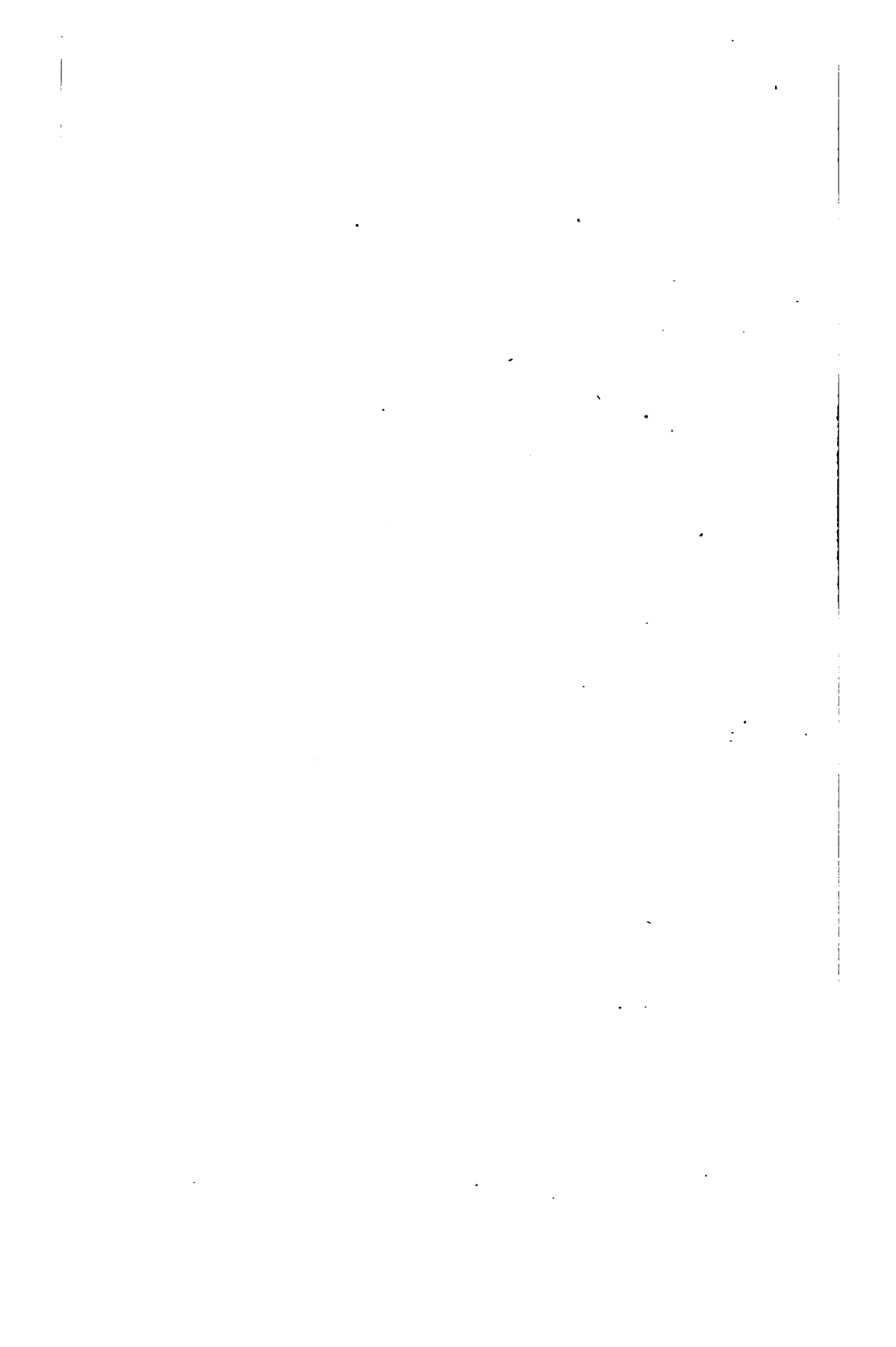




## 1

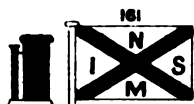








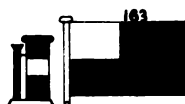
## STEAM VESSELS



161  
NETHERLANDS INDIA  
& NAVY CO.  
BATAVIA.



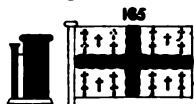
162  
NEW YORK, LONDON & CHINA CO.  
LONDON.



163  
R. NICHOLSON & SONS.  
LIVERPOOL.



164  
HORDDEUTSCHER LLOYD.  
BREMER.



165  
C. M. NORWOOD & CO.  
LONDON.



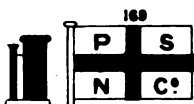
166  
OLAND, LARRINAGE & CO.  
LIVERPOOL.



167  
ORIENT STEAM NAVY CO.  
LONDON.



168  
PACIFIC MAIL S. & CO.  
LONDON.



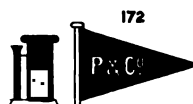
169  
PACIFIC STEAM NAVY CO.  
LIVERPOOL.



170  
PALGRAVE, MURPHY & CO.  
DUBLIN.



171  
P & O STEAM NAVY CO.  
LONDON.



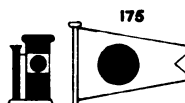
172  
PAPAYANNI & CO.  
LIVERPOOL.



173  
J. PATTON JUV & CO.  
ROYAL EXCHANGE SHIPPING CO.  
MONARCH LINE.



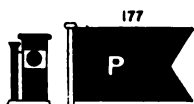
174  
R. H. PENNEY.  
BRISTON.



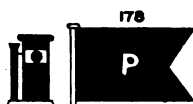
175  
D. G. PINCKNEY & SONS.  
SUNDERLAND.



176  
PORTOUS & SENIER.  
LONDON.



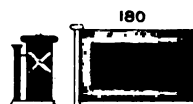
177  
PYMAN BELL & CO.  
NEWCASTLE.



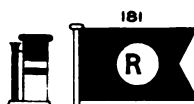
178  
G. PYMAN & CO.  
W. HARTLEPOOL.



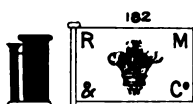
179  
PYMAN, WATSON & CO.  
CARDIFF.



180  
QUEEN S. S. CO.  
(STODDART BROS.)  
LIVERPOOL.



181  
RATHBONE BROS.  
(STAR LINE)  
LIVERPOOL.



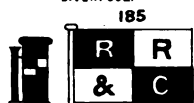
182  
RICHARDS, MILLS & CO.  
LIVERPOOL.



183  
RICHARDS, POWER & CO.  
SWANSEA.



184  
J. ROBINSON & CO.  
N. CHIEF.



185  
R. ROPNER & CO.  
W. HARTLEPOOL.



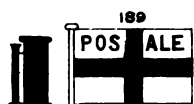
186  
W. H. ROSS & CO.  
LIVERPOOL.



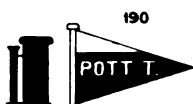
187  
ROYAL MAILS, PACKET CO.  
LONDON.



188  
RANKIN GILMOUR, STRANG & CO.  
LONDON.



189  
RUBATTINO & CO.  
GENOA.



190  
RUSSIAN S. NAVY CO.  
ODESSA.



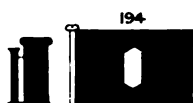
191  
RUTS & SONS.  
ROTTERDAM.



192  
R. SHADFORTH & CO.  
SUNDERLAND.



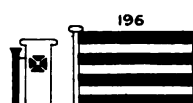
193  
SHAW, BUSHBY & CO.  
LONDON.



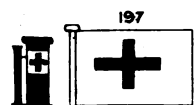
194  
SHAW, MAXTON & CO.  
LONDON.



195  
THOS. SHOTTON.  
N. CHIEF.



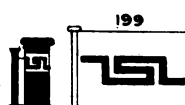
196  
ED. SHOTTON & CO.  
N. CHIEF.



197  
R. SIOLEHURST & CO.  
LIVERPOOL.



198  
T. SKINNER & CO.  
GLASGOW.



199  
SMITH, HILL & CO.  
MULL.

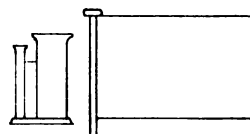
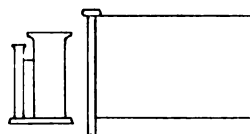
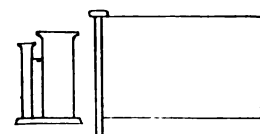
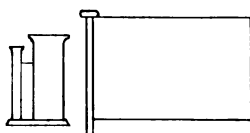
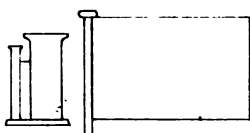
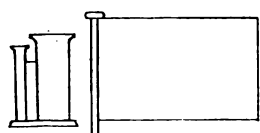
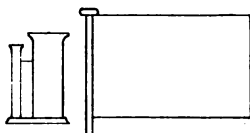
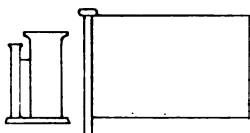
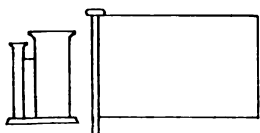
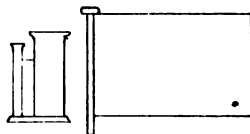
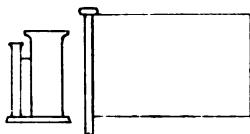
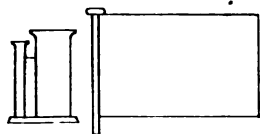
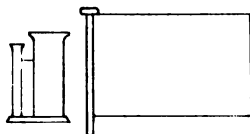
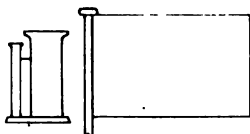
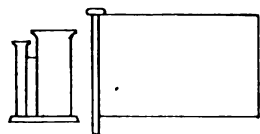
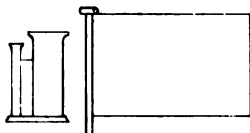
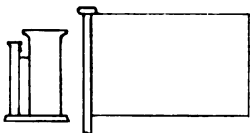
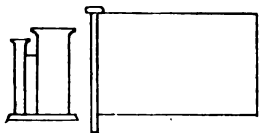
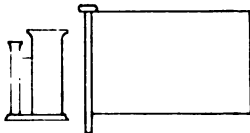
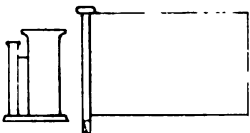
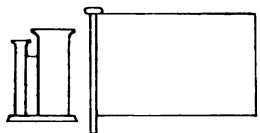
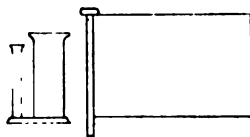
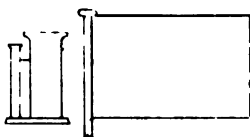


200  
T. & W. SMITH.  
NEWCASTLE.







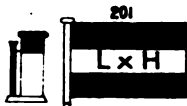








## STEAM VESSELS



201  
SOCIÉTÉ NAV. ROYALE BELGE  
SUD AMERICAINE.  
ANTWERP.



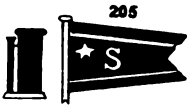
202  
S.EASTERN RAILWAY CO.  
LONDON.



203  
A. SPARTALI & CO.  
LONDON.



204  
C.E. STALLYBRASS.  
CARDIFF.



205  
STATE S.S. CO.  
GLASGOW.



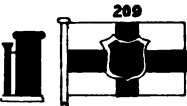
206  
STEEL, YOUNG & CO.  
LONDON.



207  
STEPHENS & HAWSON.  
NEWCASTLE.



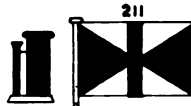
208  
STOON MAATS NEDERLAND.  
AMSTERDAM.



209  
A. STRONG.  
NEWCASTLE.



210  
STRONG, REID & PACE.  
LIVERPOOL.



211  
JOHN SWIRE & SONS.  
LONDON.



212  
H. TAYLOR & CO.  
SUNDERLAND.



213  
TAYLOR, CAMERON & CO.  
LIVERPOOL.



214  
TAYLOR & SANDERSON.  
SUNDERLAND.



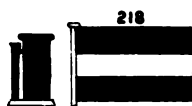
215  
TEMPERLEY, CARTER & DARKE.  
LONDON.



216  
J. TEMPERLEY & CO.  
NEWCASTLE.



217  
TOWER LINE.  
STURROE, WESTON & CO.  
LONDON.



218  
(GREGG) TURNBULL & CO.  
GLASGOW.



219  
T. TURNBULL & SON.  
WHITBY.



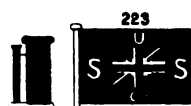
220  
TYNE S.S. CO.  
GATESHEAD.



221  
ULSTER S.S. CO.  
BELFAST.



222  
UNION S.S. CO.  
SOUTHAMPTON.



223  
UNION S.S. CO. OF N.E.  
DUNDEE.



224  
UNITED AFRICAN CO. L.M.  
LONDON.



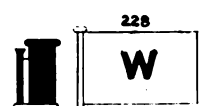
225  
J. & J. WAIT.  
NEWCASTLE.



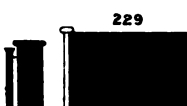
226  
J. WARRACK & CO.  
LEITH.



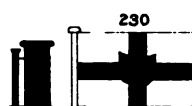
227  
G. WARREN & CO.  
LIVERPOOL.



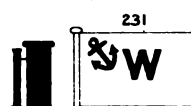
228  
WATTS, WARD & CO.  
LONDON.



229  
WEST HARTLEPOOL S. NAV. CO.  
WEST HARTLEPOOL.



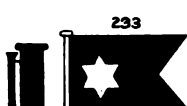
230  
WEST INDIES & PACIFIC S.S. CO.  
LIVERPOOL.



231  
JAMES WESTOLL.  
SUNDERLAND.



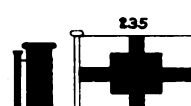
232  
WHITE CROSS LINE.



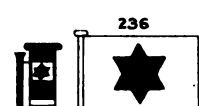
233  
WHITE STAR LINE.  
ISMAH. HIRE & CO.



234  
MARK WHITWILL & SON.  
GREAT WESTERN S.S. CO. L.M.  
BRISTOL.



235  
MONEY WIGRAM & SONS.  
LONDON.



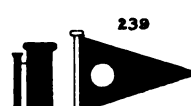
236  
WILKIE & TURNBULL.  
N. SHIELDS.



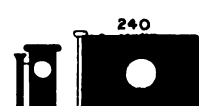
237  
WILKINSON, WATT & CO.  
W. HARTLEPOOL.



238  
C. WILLIAMSON.  
LEITH.



239  
WILSON LINE.  
HULL.



240  
CO. YOUNG & CHRISTIES.  
CARDIFF.



1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311

312

313

314

315

316

317

318

319

320

321

322

323

324

325

326

327

328

329

330

331

332

333

334

335

336

337

338

339

340

341

342

343

344

345

346

347

348

349

350

351

352

353

354

355

356

357

358

359

360

361

362

363

364

365

366

367

368

369

370

371

372

373

374

375

376

377

378

379

380

381

382

383

384

385

386

387

388

389

390

391

392

393

394

395

396

397

398

399

400

401

402

403

404

405

406

407

408

409

410

411

412

413

414

415

416

417

418

419

420

421

422

423

424

425

426

427

428

429

430

431

432

433

434

435

436

437

438

439

440

441

442

443

444

445

446

447

448

449

450

451

452

453

454

455

456

457

458

459

460

461

462

463

464

465

466

467

468

469

470

471

472

473

474

475

476

477

478

479

480

481

482

483

484

485

486

487

488

489

490

491

492

493

494

495

496

497

498

499

500

501

502

503

504

505

506

507

508

509

510

511

512

513

514

515

516

517

518

519

520

521

522

523

524

525

526

527

528

529

530

531

532

533

534

535

536

537

538

539

540

541

542

543

544

545

546

547

548

549

550

551

552

553

554

555

556

557

558

559

560

561

562

563

564

565

566

567

568

569

570

571

572

573

574

575

576

577

578

579

580

581

582

583

584

585

586

587

588

589

590

591

592

593

594

595

596

597

598

599

600

601

602

603

604

605

606

607

608

609

610

611

612

613

614

615

616

617

618

619

620

621

622

623

624

625

626

627

628

629

630

631

632

633

634

635

636

637

638

639

640

641

642

643

644

645

646

647

648

649

650

651

652

653

654

655

656

657

658

659

660

661

662

663

664

665

666

667

668

669

670

671

672

673

674

675

676

677

678

679

680

681

682

683

684

685

686

687

688

689

690

691

692

693

694

695

696

697

698

699

700

701

702

703

704

705

706

707

708

709

710

711

712

713

714

715

716

717

718

719

720

721

722

723

724

725

726

727

728

729

730

731

732

733

734

735

736

737

738

739

740

741

742

743

744

745

746

747

748

749

750

751

752

753

754

755

756

757

758

759

760

761

762

763

764

765

766

767

768

769

770

771

772

773

774

775

776

777

778

779

780

781

782

783

784

785

786

787

788

789

790

791

792

793

794

795

796

797

798

799

800

801

802

803

804

805

806

807

808

809

810

811

812

813

814

815

816

817

818

819

820

821

822

823

824

825

826

827

828

829

830

831

832

833

834

835

836

837

838

839

840

841

842

843

844

845

846

847

848

849

850

851

852

853

854

855

856

857

858

859

860

861

862

863

864

865

866

867

868

869

870

871

872

873

874

875

876

877

878

879

880

881

882

883

884

885

886

887

888

889

890

891

892

893

894

895

896

897

898

899

900

901

902

903

904

905

906

907

908

909

910

911

912

913

914

915

916

917

918

919

920

921

922

923

924

925

926

927

928

929

930

931

932

933

934

935

936

937

938

939

940

941

942

943

944

945

946

947

948

949

950

951

952

953

954

955

956

957

958

959

960

961

962

963

964

965

966

967

968

969

970

971

972

973

974

975

976

977

978

979

980

981

982

983

984

985

986

987

988

989

990

991

992

993

994

995

996

997

998

999

1000



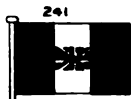




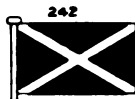




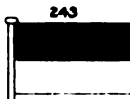
## SAILING VESSELS.



241  
ALBION SHIPPING CO.  
GLASGOW.



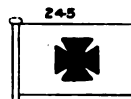
242  
ANDERSON, ANDERSON & CO.  
LONDON.



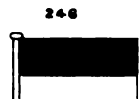
243  
BAINE & JOHNSTON.  
GREENOCK.



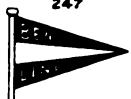
244  
BALFOUR, WILLIAMSON & CO.  
LIVERPOOL.



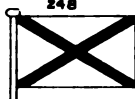
245  
B. BATES & SON.  
LIVERPOOL.



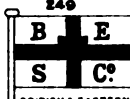
246  
BAY LINE  
MATFIELD, CAMERON & CO.  
GLASGOW.



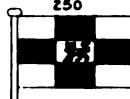
247  
BEN LINE.



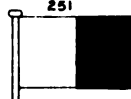
248  
C. T. BOWRING & CO.  
LIVERPOOL.



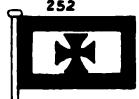
249  
BRITISH & EASTERN  
SHIPPING CO.  
LIVERPOOL.



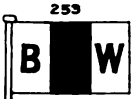
250  
BRITISH SHIPOWNERS CO.  
LIVERPOOL.



251  
T. J. BROOKLEBANK,  
LIVERPOOL.



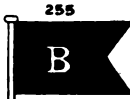
252  
W. & A. BROWN & CO.  
GLASGOW.



253  
BROWN & WATSON  
GLASGOW.



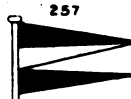
254  
SULLARD, KING & CO.  
LONDON.



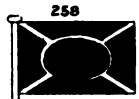
255  
J. & S. BULLOCK  
LONDON.



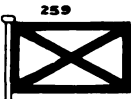
256  
BULLOCK'S BAY LINE  
J. & S. BULLOCK,  
LONDON.



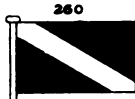
257  
C. S. CAIRD  
GREENOCK.



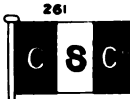
258  
A. & J. H. CARMICHAEL & CO.  
GREENOCK.



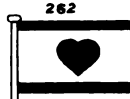
259  
MATTHEW GAY,  
S. SHIELDS.



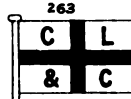
260  
J. D. CLINK,  
GREENOCK.



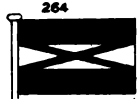
261  
CLUTHA SHIPPING CO.  
J. HARDIE & CO.  
GLASGOW.



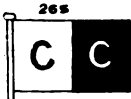
262  
J. P. CORRY & CO.  
SHEFFIELD.



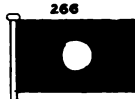
263  
COTESWORTH, LYNN & CO.  
LIVERPOOL.



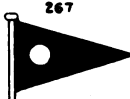
264  
R. & J. CRAIG,  
GLASGOW.



265  
W. & J. CRAWFORD,  
GREENOCK.



266  
CROW, BOGART & CO.  
LIVERPOOL.



267  
R. CUTHBERT & CO.  
GREENOCK.



268  
DALE LINE.  
J. D. NEWTON & CO.  
LIVERPOOL.



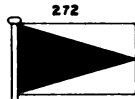
269  
T. DANIEL & SONS,  
BRISTOL.



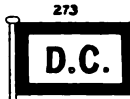
270  
J. S. DE WOLF & CO.  
LIVERPOOL.



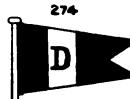
271  
DEVITT & MOORE,  
LONDON.



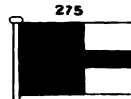
272  
W. T. DIXON & SONS  
LIVERPOOL.



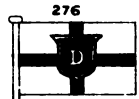
273  
ALFRED DOBELL & CO.  
LIVERPOOL.



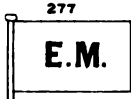
274  
DONALDSON BROS  
GLASGOW.



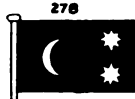
275  
G. DUNCAN & CO.  
LONDON.



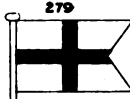
276  
DUNDEE CLIPPER LINE.  
D. BRUCE & CO.  
DUNDEE.



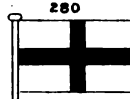
277  
EDMISTON & MITCHELL.  
GLASGOW.



278  
ELDER LINE.  
TRINDER, ANDERSON & CO.  
LONDON.



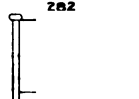
279  
H. ELLIS & SON,  
LONDON.



280  
J. EWING & CO.  
GLASGOW.



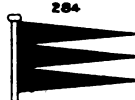
281  
FARNWORTH & JARDINE.  
LIVERPOOL.



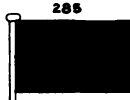
282  
H. FERNIE & SONS.  
LIVERPOOL.



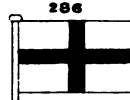
283  
FISHER & PROTT,  
LONDON.



284  
FOLEY, AIKMAN & CO.  
LONDON.



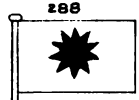
285  
E. G. FRIEND & CO.  
LIVERPOOL.



286  
GELLATLY, HANKEY,  
SEWELL & CO.  
LONDON.



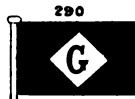
287  
GENERAL SHIPPING CO.  
GLASGOW.



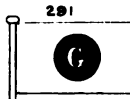
288  
GILLISON & CHADWICK,  
LIVERPOOL.



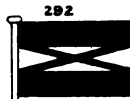
289  
GLASGOW SHIPPING CO.  
GLASGOW.



290  
GOODYEAR & CO.  
LIVERPOOL.



291  
S. R. GRAVES & SON.  
LIVERPOOL.



292  
HALL BROS.  
NEWCASTLE.



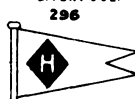
293  
T. HANKEY & CO.  
LONDON.



294  
HARGROVE & HELLON,  
LIVERPOOL.



295  
T. HARRISON & CO.  
LIVERPOOL.



296  
J. HEAP & SONS,  
LIVERPOOL.



297  
JOHN HERRON,  
LIVERPOOL.



298  
HOPE BROS.  
LIVERPOOL.



299  
P. IREDALE & SON,  
LIVERPOOL.



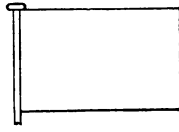
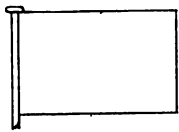
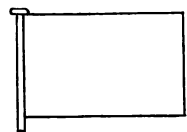
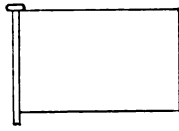
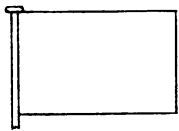
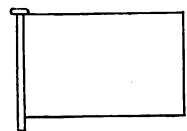
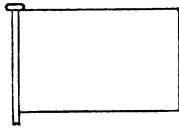
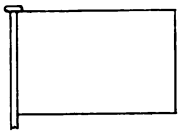
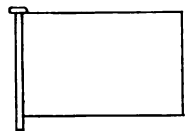
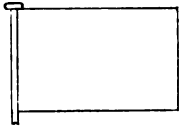
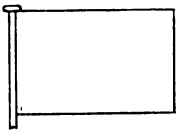
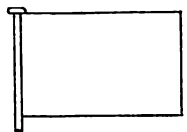
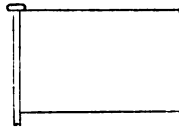
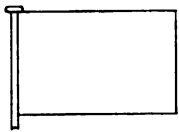
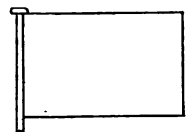
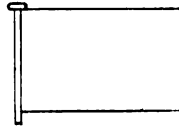
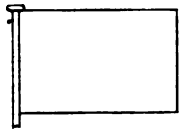
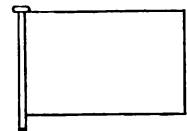
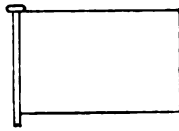
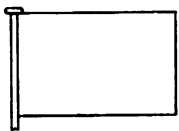
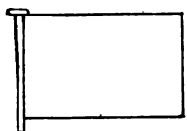
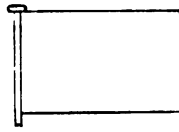
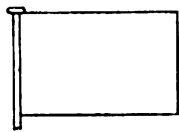
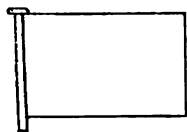
300  
ISMAY, IMRIE & CO.  
LIVERPOOL.







## SAILING VESSELS.


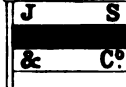

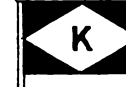


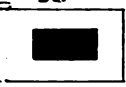
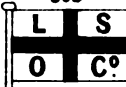























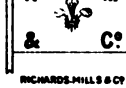











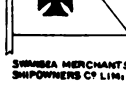
























## SAILING VESSELS.

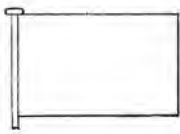
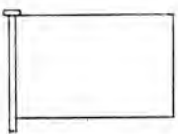
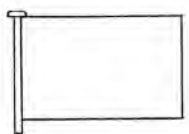
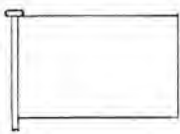
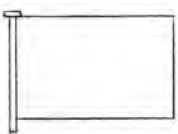
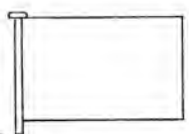
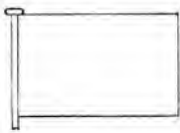
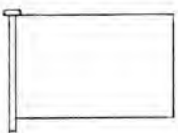
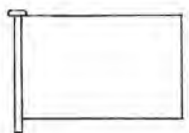
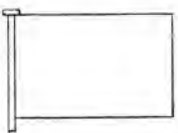
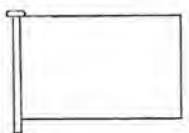
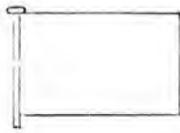
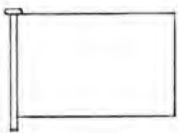
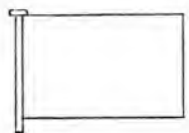
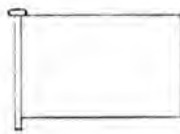
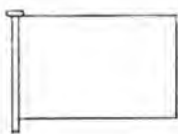
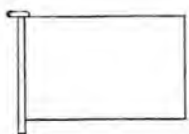
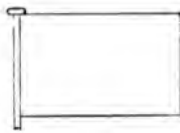
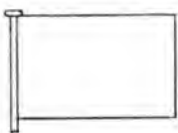
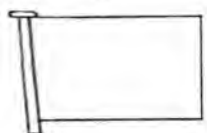
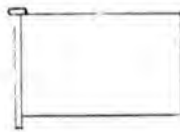
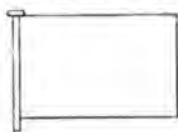
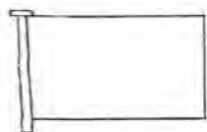
301  J. JACOBSON & CO LONDON.	302  JOHNSTON, SPROULE & CO. LIVERPOOL.	303  G. W. KELLOCK & CO LIVERPOOL.	304  J. KERR & CO GLASGOW.	305  HERR, NEWTON & CO. GLASGOW.	306  KILICK, MARTIN & CO. LONDON.
307  R. W. KING BRISTOL.	308  LANCASTER SHIPOWNERS CO LIVERPOOL.	309  T. LAW & CO. GLASGOW.	310  LEADERHALL LINE. LONDON.	311  J. LIDGETT & SONS. LONDON.	312  LONDON, EDGAR & CO. LIVERPOOL.
313  A. LYLE & SONS GLASGOW.	314  W. MC CORKELL & CO LONDON.	315  MS DIARMID GREENSHIELDS & CO LIVERPOOL.	316  MYLWATH, MYBACHMAN & CO LONDON.	317  MYLWATH, FRET & CO LIVERPOOL.	318  MERCHANT SHIPPING CO LONDON.
319  MERCHANT TRADING CO. LIVERPOOL.	320  W. MILVAIN & SONS GATESHEAD.	321  MONTGOMERIE & WORKMAN, LONDON.	322  NELSON & CO. LIVERPOOL.	323  NEW ZEALAND SHIPPING CO LONDON.	324  W. NICOL & CO LIVERPOOL.
325  R. NICHOLSON & SONS. LIVERPOOL.	326  NICHOLSON & MYGILL, LIVERPOOL.	327  J. NOURSE, LONDON.	328  ORIGINAL CLAN LINE, T. DUNLOP, GLASGOW.	329  PHILLIPS & BRAVES, LONDON.	330  RAHIN, GILMORE & CO. LIVERPOOL.
331  J. T. RICHMOND, LONDON.	332  RICHARDS, HILLS & CO LIVERPOOL.	333  RICHARDS, POWER & CO. SWANSEA.	334  W. ROME, LIVERPOOL.	335  J. B. ROBERTSON, GLASGOW.	336  T. ROYDEN & SONS, LIVERPOOL.
337  SANDSACH, TYNE & CO LIVERPOOL.	338  SHALLCROSS & HIGHAM, LIVERPOOL.	339  SHAW, SAVILL & CO. LONDON.	340  J. SHEPHERD & CO. LONDON.	341  W. P. SINCLAIR & CO. LIVERPOOL.	342  G. SMITH & SONS, GLASGOW.
343  J. STREL & SON, LIVERPOOL.	344  SWANSEA MERCHANTS, SHIPOWNERS CO. LIME.	345  TEMPERLEY, CARTER & DARKE, LONDON.	346  THOMSON, DICKE & CO. GLASGOW.	347  W. THOMSON, DUNDEE.	348  H. THOMSON & GRAY, GLASGOW.
349  THOMPSON, ANDERSON & CO LIVERPOOL.	350  G. THOMPSON & CO. LONDON.	351  G. TYBER & CO. LONDON.	352  J. B. WILKINSON & CO. LIVERPOOL.	353  S. WAKEHAM & SON LIVERPOOL & W. PARASOLINE.	354  DH. WITJEN & CO. BREMEN.
355  WITSON BROS., GLASGOW.	356  T. WILLIAMS & CO. LIVERPOOL.	357  WILLIAMSON MILLMAN & CO LIVERPOOL.	358  J. WILLIS & CO LONDON.	359  J. & R. WILSON, GLASGOW.	360  W. & R. WILSON, LIVERPOOL.







SAILING VESSELS.









For Printed Forms, such as "Clothes Lists," &c., see page 10.  
For General Naval Professional Books see page 13.

NAVAL PUBLICATIONS OF  
**GRIFFIN & CO.,**  
BOOKSELLERS & PUBLISHERS,

(By Appointment, to H.R.H. The Duke of Edinburgh).

**2, THE HARD, PORTSMOUTH.**

LONDON AGENTS:—Simpkin Marshall and Co.

---

New Edition, 1882. Revised and greatly Enlarged.  
**SIR GEORGE S. NARES' SEAMANSHIP**  
8th Edition. Demy 8vo. . 21s.

420 beautifully engraved Woodcuts, and Plates of National and Signal Flags, also of Lights and Fog Signals, accurately Coloured.

*'It is the best work on Seamanship we have.'*—Standard.

*'Every necessary particular is given so fully and completely as to leave nothing to be desired.'*—Shipping Gazette.

---

**HARBORD'S GLOSSARY OF NAVIGATION**

With Diagrams and Illustrations, bound in leather, price 7s. 6d.

A Vade Mecum for practical Navigators of the Royal Navy, Mercantile Marine and Yacht Squadrons; containing explanations of the technical terms used in Nautical Geography, Meteorology, and Astronomy; hints to young officers for systematic study; and information not generally accessible when wanted.

---

**HINTS ON BOAT SAILING AND RACING.**

By Captain C. C. P. FITZGERALD, R.N.

Foolscap 8vo. Illustrated. Price 2s. 6d.

*"It is written in thorough sailor-like fashion, and is evidently the result of many years' experience. It is full of useful hints and practical advice as to sailing, trim, ballasting, steering and rig."*Hampshire Telegraph.

---

**FLAGS—NATIONAL AND MERCANTILE.**

Containing

**360 HOUSE FLAGS and FUNNELS.**

Beautifully Printed in Colours. Demy 8vo. Bound in Cloth.

Price 7s. 6d.

---

**THE SAILOR'S POCKET BOOK**

3rd Edition. 7s. 6d.

By Captain F. G. D. BEDFORD, R.N. A Collection of Practical Rules, Notes, and Tables, for the use of the Royal Navy, the Mercantile Marine, and Yacht Squadrons. With Colored Signal Flags, Charts, and Illustrations. Bound in leather, 500 pages, and carefully compiled Index.

*"A Nautical Cyclopædia."*—*Liverpool Albion.*

*"The most perfect and complete of any publication of the kind."*—*U.S. Gazette*

*"A valuable addition to a yachtsman's library."*—*Land and Water.*

*"Valuable and excellently arranged little work."*—*Pall Mall Gazette.*

*"An admirable and much wanted little book."*—*Edinburgh Review*

---

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*

---



## THE SHIPS OF THE ROYAL NAVY

Vol. 1. Price 30s.

Contents: Portraits of H.M. Ships 'Hercules,' 'Trafalgar,' 'Captain,' 'Duke of Wellington,' 'Royal Alfred,' 'Monarch,' 'Minotaur,' 'Royal Yacht 'Victoria and Albert,' 'Victory,' 'Northumberland,' 'Troopship 'Crocodile,' 'Warrior,' 'Sultan,' 'Inconstant,' 'Bellerophon,' 'Defence,' 'Narcissus,' 'Volage,' 'Iron Duke,' 'Hotspur,' 'Glatton,' 'Enterprise,' and Gun-Boat 'Comet.'

Beautifully Lithographed in Colours from Original Drawings, by W. F. Mitchell, Esq. Demy 4to., blue cloth, extra gilt, 30s.; Best Morocco, £3 3s.; Russia, £3 13s. 6d.

*'This beautiful work does credit to all concerned in its production.'*—*Pall Mall Gazette.*

## THE SHIPS OF THE ROYAL NAVY

New Volume. (Vol. 2.) Price 30s.

Contents: Portraits of H.M. Ships 'Inflexible,' 'Alexandra,' 'Temeraire,' 'Dreadnought,' 'Neptune,' 'Shannon,' 'Iris,' 'Shah,' 'Raleigh,' 'Boadicea,' 'Bacchante,' 'Active,' 'Comus,' 'Diamond,' 'Turquoise,' 'Wild Swan,' 'Falcon,' 'Hecla' and Torpedo Boat, 'Medina,' 'Himalaya,' 'Orontes,' 'Challenger,' 'Cruiser,' 'Discovery,' and 'Excellent.'

Beautifully Lithographed in Colours from Original Drawings, by W. F. Mitchell, Esq. Demy 4to., blue cloth, extra gilt, 30s.; Best Morocco, £3 3s. Russia, £3 13s. 6d.

*'Among illustrated works, none has appeared of greater interest than this upon the Royal Navy.'*—*Times.*

## THE SHIPS OF THE ROYAL NAVY

Vols. 1 and 2 bound together, complete; containing 50 Portraits of Ships, and a History of the Royal Navy. Bound in Blue Cloth, 60s.; Morocco, £5 5s.; Russia, £5 15s. 6d.

## CAPTAIN ALSTON'S "SEAMANSHIP"

2nd Edition. Crown 8vo. Cloth, 12s. 6d.

Contains 200 Illustrations of Rigging, Sails, Masts, &c.; with Instructions for Officers of the Merchant Service, by W. H. ROSSER; forming a complete Manual of Practical Seamanship.

*"The illustrations, of which there are 200, are well executed, and the reviser has brought down to the present day all changes in the rig and build of ships of war."*—*Shipping Gazette.*

It has been revised and enlarged by Commander R. H. Harris, R.N., and includes a treatise on nautical surveying by Staff-Commander May, and also some useful instructions for officers of the merchant service. The book seems well adapted for junior officers of the navy, and the sound advice and high moral tone of its introduction give it an additional recommendation.  
—*Liverpool Mercury*

## THE RIGGER'S GUIDE.

10th Thousand. New Edition.

Revised and enlarged. Cloth, 3s.

By CHARLES BUSHELL. Fully Illustrated. Being the best and only complete book on the Rigging of Ships.

*"This is a valuable little book, adapted to suit every class of ship, whether steam or sailing vessel, and should form part of the kit of every youngster adopting the profession of the sea. Many oldsters will also find it valuable, from the general information it contains. The present is the sixth edition, which has been carefully revised and corrected."*—*U. S. Gazette.*

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*



## **TORPEDOES AND TORPEDO WARFARE: Offensive and Defensive.**

Being a Complete History of Torpedoes and their application to Modern Warfare. By Lieutenant C. SLEEMAN, R.N., and late Commander Imperial Ottoman Navy. 1 vol., Royal 8vo., with Illustrations and Plates, 2nd Edition. Price 24s.

## **THE GUN, RAM, AND TORPEDO.**

Manceuvres and Tactics of a Naval Battle of the present day.

By Commander GERARD H. U. NOEL, R. N.

Crown 8vo. With full page Illustrations, Price 8s. 6d.

"For an essay on so large a subject we have seldom met with one more complete . . . thoughtful, and altogether excellent."—*Naval Science*.

## **THE DUEL: A NAVAL WAR GAME.**

Invented and arranged by CAPT. PHILIP H. COLOMB, R.N., with Explanations and Rules of the Game, and the necessary Scales, and large Drawing Block. Price 10s. 6d.

"Captain Colomb's War Game will prove very useful to all Executive Officers. It will become the Naval Chess."—*Admiral A. P. Ryder*.

"I think it will prove of much advantage to the Service. It will open the eyes of many men who have hitherto thought and talked of the subject perhaps intelligently, but not accurately."—*Adl. Sir A. Cooper-Key, K.C.B.*

## **PROBLEMS IN NAVAL TACTICS.**

By VICE-ADMIRAL RANDOLPH, C.B. With four Full-Page Diagrams. Demy 8vo. 2s.

## **REMARKS ON THE MANŒUVRES OF TWO VESSELS IN ACTION.**

By Lieut. G. R. BETHELL, R.N. Demy 8vo. With Diagrams. Price Two Shillings.

## **A new Edition of Captain Arthur's ACTIVE LIST OF FLAG OFFICERS AND CAPTAINS OF THE ROYAL NAVY.**

With particulars, shewing their progress and services to the 1st January, 1883. Price, 3s. 6d.

## **THE WAR SHIPS OF EUROPE**

Crown 8vo. Illustrated. 10s. 6d. 1st Edition.

By Chief-Engineer KING, U.S.A. Descriptions of the Construction, Armour and Fighting Power of the Ironclads of England and other European Powers of the present day. Revised and Corrected throughout, with additional Notes by an English Naval Architect.

*Griffin & Co., Publishers, 2, The Hard, Portsmouth*



## DEFINITIONS IN NAVIGATION AND NAUTICAL ASTRONOMY

(FROM VARIOUS AUTHORITIES.)

**New Edition.** With Diagrams. Demy 8vo. Cloth, 2s. 6d.  
For the use of the Naval Cadets, H.M.S. "Britannia."

## NAUTICAL SURVEYING.

By Commander MAY, R.N., F.R.G.S.

Reprinted from "Alston's Seamanship." With Charts. 2s. 6d.

"The treatise is simple and clear in arrangement, and written with the especial object of instructing the officers of the Naval Service in general, and only deals with the use of such instruments as are found on board of every man-of-war. We have never met with any treatise on nautical surveying by any means so well calculated to answer the purpose for which it was written."—*Naval Science*.

## JOURNAL AND REMARK BOOK.

For use of Officers of the Royal Navy.

**One Year, 5s.6d ; Two Years, 7s.6d. ; Three Years, 9s.6d.**

## JOURNAL BOOK AND DIARY

For the use of the Officers of the Royal Navy. After the Style and Size of Letts's Diary. Containing Two Days on a page, with ruled paper, and a Printed Journal Form to each Day, for recording Course and Distance, Wind and Weather, Barometer and Thermometer, Latitude and Longitude, &c.

*Prices, strongly bound :—*

One year, 4s. 6d. ; 2 years, 6s. 6d. ; 3 years, 8s. 6d. ;

One year (interleaved) 5s. 6d. ; 2 years (interleaved) 8s. 6d.

"We would direct the attention of Naval officers to a very complete Naval Diary, which has just been compiled and published. It has only to be shown to be appreciated."—*U.S. Gazette*.

## THE ARMIES OF EUROPE AND ASIA

Demy 8vo. Illustrated. 14s.

By Major-General UPTON, U.S.A. Embracing Official Reports on the Armies of Japan, China, India, Persia, Italy, Russia, Austria, Germany, France, and England. Accompanied by Letters descriptive of a Journey from Japan to the Caucasus.

## SEA TERMS AND PHRASES.

ENGLISH AND FRENCH. By Lieut. E. PORNAIN, French Navy. For the use of Officers of Royal and Mercantile Navies, Engineers, Shipbuilders, Ship Owners, Merchants, Ship Brokers.

Crown 8vo. 2nd Edition. Price 4s.

"A copy should be possessed by everyone whose profession, occupation, or interests bring them into relationship with a seafaring life."—*British Mercantile Review*.

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*



## VOCABULARY OF SEA WORDS.

IN ENGLISH, FRENCH, GERMAN, SPANISH, and ITALIAN. By Commander THE HON. A. C. LITTLETON, R.N. For the use of Officers of the Royal and Mercantile Navies, Yachtsmen, Travellers, &c. Strongly bound and interleaved throughout.

Price 3s. 6d.

"In addition to the English terms used in connection with the Sea, we have the same in French, German, Spanish and Italian. . . . Not merely to the seafaring man, but also to the ordinary traveller, this book recommends itself."—*U.S. Gazette*.

"It is handy in size and complete in all respects, provision having been made by blank leaves between each page for any additions that may have to be made."—*Broad Arrow*.

## OUR PERIL AFLOAT; OR COLLISIONS AND HOW TO AVOID THEM

With Illustrations. 1s.

By Captain P. H. COLOMB, R.N. (Gold Medalist, Royal U.S. Institution.) CONTENTS: Part I. The Rule of the Road at Sea: its history and present condition; Part II. The Theory and Practice of avoiding Collision at Sea; and the Regulations issued by Order in Council.

## A SEAMAN'S LIFE ON BOARD A MAN-OF-WAR

Crown 8vo. Price 6d.

## THE HISTORY OF H.M.S. "VICTORY."

1s. cloth; paper, 6d.

25th Thousand. By Commander W. J. L. WHARTON, R.N.

A most interesting Memoir of the famous ship in which Nelson won his crowning triumph and death.

## THE ACTIVE LIST

Of all COMMANDERS and LIEUTENANTS:

Corrected to July 1st, 1878.

By Lieut. M. R. HAYES, R.N. Demy 8vo. 3s. 6d.

Showing Dates of Entry, and Commissions, AGES, AND AMOUNT OF SEA TIME, Causes of Special Promotions, Special Acquirements, Comparative Progress with other Officers, List of all Officers now on the Active List who were promoted to the rank of Commander from Flag-Lieut. or Her Majesty's Yacht, the Age and Sea Time of Commanders, and other interesting particulars.

*Griffin & Co., Publishers, 2, The Hard, Portsmouth*



ON THE RELATIVE MERITS OF  
**SIMPLE AND COMPOUND ENGINES.**

By NIEL MACDOUGALL, Esq. With numerous Diagrams and  
 Illustrations. Price 4s. 6d.

"The Book will prove instructive and interesting to all engaged in Marine Engineering pursuits, and the Engineer Officers of the Royal Navy in particular are heartily recommended it."—*Broad Arrow*.

"Mr. Macdougall has treated this much-debated and highly-important question of the Relative Merits of Simple and Compound Engines in a vigorous, practical, and highly creditable manner."—*Naval Science*.

**THE MANUAL OF THE HYDROMETER.**

2nd Edition. Illustrated. Cloth. 3s. 6d.

By LIONEL SWIFT, R.N.

Will be found of considerable interest to Engineers and all those who are interested in the safe and economical working of Steam Engines."—*Shipping and Mercantile Gazette*.

**TABLE FOR CORRECTION OF LONGITUDE**

WHERE ERROR ARISES FROM INCORRECT LATITUDE.

2nd Edition. 1s.

By GILBERT T. KEY, Commander, R.N.

**TRAVERSE TABLES**

With simple and brief method of Correcting Compass Courses.

By Commander R. E. EDWIN, R.N. Cloth, 5s. 6d.

"Lieutenant Edwin has been at great pains and trouble, and he will probably save many hundreds of persons from calculations which are frequently 'wearisome to the flesh.'"—*Broad Arrow*.

**LAND OF THE WHITE BEAR.**

The Cruise of the "Pandora," to the Arctic Seas in 1875.

By LIEUT. F. G. INNES-LILLINGSTON, R.N.

With beautiful full-page Illustrations. Cloth Gilt, 5s.

"The volume is prettily got up, and the views of Arctic scenery are about the best we have seen in any recent work of the kind."—*Athenæum*.

"Thanks to English pluck and perseverance, combined, in so many instances, with the ability to write a book, we have become as familiar with Arctic-life scenes and adventures as they can be made so by description. In the present well-got-up little volume, we have an account of the first voyage of the *Pandora*. . . . We can heartily recommend Lieut. Innes-Lillingston's narrative. . . . As a gift book, we can also recommend the *Land of the White Bear*, for it is exceedingly well illustrated, and both in letter-press and binding is in the Messrs. Griffin's usually good style."—*U.S. Gazette*.

**SEARCH FOR SIR JOHN FRANKLIN.**

Price 1s. Illustrated.

From the Journal of Capt. Sir ALLEN YOUNG, K.C.B.

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*



## THE WEST COAST OF AFRICA

AS SEEN FROM THE DECK OF A MAN-OF-WAR.

Illustrated. Demy 8vo., Cloth. 7s. 6d.

By Commander H. DYER, R.N.

"We think the friends of the late Commander Dyer have done well in publishing this little volume as a memorial to one whom they loved, both as a genial companion and an officer.

"That large class of readers which takes pleasure in perusing books of travel cannot do better than read this well-printed volume."—*Broad Arrow*.

## LAST FOUR DAYS OF H.M.S. "EURYDICE."

By Captain E. H. VERNEY, R.N.

With Portrait of the "Eurydice." Cloth. 2s. 6d.

"Capt. Verney has done his work remarkably well, and with the best possible taste. He does not moralize or try to improve the occasion, but, writing with a restrained pathos and a graphic touch, he lets the stern simple facts speak for themselves."—*Athenaeum*.

MEMOIR OF

## COMMODORE J. G. GOODENOUGH, C.B.

BY CLEMENTS R. MARKHAM, C.B., F.R.S.

WITH PORTRAIT. Crown 8vo., Cloth. 2s. 6d.

"A complete account of a singularly beautiful career."—*Broad Arrow*.

"A touching memento of the gallant sailor."—*Court Journal*.

## MANUAL OF GUNNERY (DRILL BOOK)

Corrected to 1882. Price 1s.

## Instructional Pamphlet on COMPANY DRILL FOR THE ROYAL NAVY.

By Lieutenant F. E. Poulter, R.N. Price 4d.

*By Authority of the Lords of the Admiralty.*

## QUESTIONS & ANSWERS ON THE AMMUNITION INSTRUCTION.

For Officers passing through H.M. Gunnery Establishments.

By J. KITE, Instructing Gunner, H.M.S. "Excellent."

New, Revised, and Enlarged Edition. Price 2s.

*By Authority.*

## COURSE OF INSTRUCTION IN GUNNERY SHIPS FOR OFFICERS AND MEN.

Demy 8vo. 3d.

*Griffin & Co., Publishers, 2, The Hard, Portsmouth*



**ROYAL NAVAL ARTILLERY VOLUNTEERS  
GUNNERY DRILL BOOK.**

Copiously illustrated with Diagrams. 1s. 6d.

**TEXT BOOK ON THE CONSTRUCTION AND  
MANUFACTURE OF ORDNANCE.**

Printed by Order of the Secretary of State for War. Second Edition.  
Coloured Illustrations. Cloth Boards. 1879.  
Abridged Edition. 9s.

**Handbook of the Manufacture and Proof of Gunpowder.**

By Capt. F. M. SMITH, Royal Artillery. 8vo., cloth boards.  
With Plate and Diagrams. 5s.

**Text Book on  
THE THEORY OF THE MOTION OF PROJECTILES;  
the History, Manufacture, and Explosive Force of  
Gunpowder; and the History of Small Arms.**

*Published by Authority.* With Diagrams. Cloth Boards.  
2s. ; interleaved, 2s. 6d.

**THE PILOT'S HANDBOOK FOR THE ENGLISH  
CHANNEL.**

7th Edition. 7s.

Illustrated with 17 plates. By Staff-Commander KING, R.N.

**ENGINEER OFFICER'S  
WATCH, STATION, QUARTER, & FIRE BILLS.**

By WILLIAM J. J. SPRY, R.N. 3s. 6d.  
A complete *vade mecum* for Engineer Officers in Her Majesty's Navy.

**WATCH, STATION, QUARTER, AND FIRE BILL.**

New Admiralty Form, No. 1, 5s. No. 2, 2s. 6d.

**RIFLE AND FIELD EXERCISES AND MUSKETRY  
INSTRUCTION FOR HER MAJESTY'S FLEET,**

1s. 6d.

**MANUAL AND FIRING EXERCISES FOR THE  
MARTINI-HENRY RIFLE.**

For the use of the Navy. By Authority. Threepence.

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*



**QUEEN'S REGULATIONS AND ADMIRALTY  
INSTRUCTIONS—*New Edition*, 1879. 2s. 6d.  
Addenda to May, 1880. 6d.**

---

**MODERN NAVAL HYGIENE.**

Translated from the French by JOHN BUCKLEY, Esq.,  
Staff-Surgeon, R.N. Cloth. 2s.

---

**FIELD EXERCISE FOR THE ARMY. 1s.**

---

**RIFLE EXERCISE AND MUSKETRY INSTRUCTION  
FOR ROYAL NAVY, 1s.**

---

**TREATISE ON AMMUNITION—6s.**

---

**NOTES ON AMMUNITION.**

*Published by Authority.* Corrected to July, 1877. With Diagrams.  
cloth boards, 2s. 6d.

---

**MANUAL OF FIELD FORTIFICATION—3s.**

---

**BATTALION WORDS OF COMMAND—3d.**

---

**THE SAPPERS' MAUNAL—Part 1.—2.**

---

**THE ADMIRALTY MANUAL OF SCIENTIFIC  
ENQUIRY. 4th Edition. 3s. 3d.**

---

**CERTIFICATE CASES. Half Roan, 2s. 6d.**

---

**SEAMEN'S PRAYERS**

---

For the use of the Royal Navy; and also Merchant Service.

---

90th THOUSAND; on Card, 2s. per 100. Per post, 2s. 6d.

---

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*



# **SEAMANSHIP PROGRESS BOOK,**

To include Executive Subordinate Officers,  
WITH FORM OF QUARTERLY RETURN OF NEW RATES  
AND QUARTERLY JOURNAL OF INSTRUCTION.

Price 12s. 6d.

# **WATCH BILL ALTERATION BOOK.**

Price 10s. 6d.

# **MIDSHIPMAN'S LEAVE BOOK.**

Price 10s. 6d.

# **GANGWAY BOOK**

FOR WINES, SPIRITS AND MALT LIQUORS. 7s. 6d.

**NAME AND RATING CARDS,** 3s. per 100.

**COURSE AND DISTANCE FORMS.** 2s. per 100.

# **PROGRESS BOOK**

FOR THE USE OF NAVAL INSTRUCTORS.

10s. 6d.

**CLOTHES LIST**—New Pattern. 4s. 6d. and 7s. 6d.

**CLOTHES AND SLOP LIST**—Old Pattern 5s. and 8s. 6d.

**CHRONOMETER JOURNAL.**—With Diagrams. 12s. 6d.

# **LOG BOOKS (RULED FORM).**

Best Paper. Two quires, 8s. 6d. Three quires, 10s. 6d.

**NOSOLOGICAL JOURNAL.**—9s.

**NIGHT ORDER BOOK.**—5s. 6d.

**WASHING BOOK FOR NAVAL OFFICERS.**—6d.

# **MESS WINE BOOKS**

With Cash Book and Ledger, complete in One Volume.  
For 24 Members, 15s. ; For 12 Members, 12s. 6d.

**ROUGH DAILY WINE BOOK,** 8s. 6d.

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*



## SAILOR'S WORD BOOK

### A Nautical and Military Vocabulary.

By Admiral SMYTH. Thick 8vo., cloth. Published at 21s.  
Reduced to 12s. 6d.

## SHIPS' CRESTS

### Stamped in Colors.

40 Crests on each sheet, 6 different sheets, One Shilling each  
ALSO,

### Illuminated Ships' Crests,

9 on each sheet, 10 different Sheets. One Shilling each.

A complete set, consisting of 200 Crests, in *Colors*, and 90 *Illuminated* in Gold and Colors, costs 15s.

## NEW PUBLICATIONS AND NEW EDITIONS IN THE PRESS.

### A Second Volume of the SAILOR'S POCKET BOOK,

By CAPTAIN F. G. D. BEDFORD, R.N., Royal  
Naval College, Greenwich. Price, 7s. 6d.

### A BOOK OF FLAGS.

Containing all the national and international flags, also the House Flags and Funnels of the principal English and Foreign Merchant Companies. Demy 8vo. Printed in Colours.

### RULE OF THE ROAD AT SEA,

*Revised Edition.*

By VICE-ADMIRAL ALGERNON DE HORSEY.

Being Remarks and Suggestions relative to the Regulations for Preventing Collisions at Sea and Practical Directions for their observance.

### CAPTAIN SIR GEORGE S. NARES' SEAMANSHIP

Translated into Italian.

### CAPTAIN SIR GEORGE S. NARES' SEAMANSHIP

Translated into French

### CAPTAIN COLOMB'S NAVAL TACTICS

*In Preparation.*

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*



THE FOLLOWING  
**New and Important Naval Professional Works**  
 ARE SOLD BY MESSRS. GRIFFIN & CO.

**THE BRITISH NAVY:**  
**Its Strength, Resources & Administration.**  
 By SIR THOMAS BRASSEY, K.C.B., M.P.

Vol. 1, part 1 Price 10s. 6d.  
 Vol. 2, part 2 „ 3s. 6d.  
 Vol. 3, part 3 „ 3s. 6d.

In these three volumes will be found all the most recent information concerning structure of the different types of vessels; also tabulated statement of the respective strength of British and Foreign Navies, and all details of Armament. Torpedoes, Torpedo Vessels and other cognate subjects.

**HYDROGRAPHICAL SURVEYING:**  
 A description of the Means and Methods employed  
 in constructing Marine Charts.  
 By CAPTAIN W. J. L. WHARTON, R.N.  
 Demy 8vo., with Diagrams and Tables. Price 15s.

**OUTLINES OF NAVAL HYGIENE.**  
 By JOHN D. MACDONALD, F.R.S.  
*Inspector-General, R.N., Professor of Naval Hygiene, Royal  
 Naval School, Netley.*  
 Crown 8vo. Price 12s. 6d.

**THE MARINE STEAM ENGINE:**  
 A Treatise for the use of Engineer Students and  
 Officers of the Royal Navy.  
 By RICHARD SENNETT, Chief-Engineer, R.N.,  
*First Assistant to Chief-Engineer H.M. Dockyard, Devonport  
 and late Instructor on Marine Engineering at R.N. College.*  
 With numerous Diagrams. Price 21s.

**A NEW EDITION OF**  
**A Manual of NAVAL ARCHITECTURE.**  
 2nd Edition.  
 For the use of Officers of the Royal Navy, Officers of the  
 Mercantile Marine, Shipowners and Yachtsmen.  
 Revised and Enlarged Demy 8vo. Price 24s

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*



## NAVAL PROFESSIONAL BOOKS.

SOLD BY MESSRS. GRIFFIN & CO.

### NAVIGATION, ASTRONOMY, &c.

- "WRINKLES" IN NAVIGATION, by Capt. S. T. Lecky.  
8vo. 76 illustrations. 15s.
- HARBORD'S GLOSSARY OF NAVIGATION. New Edition.  
7s. 6d.
- RAPER'S NAVIGATION, NAUTICAL ASTRONOMY, &c. With  
Tables. 16s.
- JEANS' NAVIGATION AND NAUTICAL ASTRONOMY. 14s.
- JEANS' TRIGONOMETRY, with Problems in Nautical Sur-  
veying, &c.
- JEANS' HANDBOOK OF THE STARS. 4s. 6d.
- NORIE'S EPITOME OF PRACTICAL NAVIGATION. 16s.
- INMAN'S NAUTICAL TABLES. 15s.
- BURDWOOD'S AZIMUTH TABLES. 4s. 6d.
- DAVIS'S AZIMUTH TABLES, from  $30^{\circ}$  N. to  $30^{\circ}$  S. 10s. 6d.
- NAVIGATION AND NAUTICAL ASTRONOMY. By the Rev. R.  
M. Inskip, C.B. 6s. 6d.
- HOW TO FIND THE STARS, AND THEIR USE IN DETERMIN-  
ING LATITUDE, LONGITUDE, and THE ERROR of the COMPASS.  
8s. 6d.
- THE STARS; HOW TO KNOW AND HOW TO USE THEM,  
with copious Astronomical Definitions, &c., and Four Large Maps of  
the Stars. 7s. 6d.
- TABLE FOR THE CORRECTION OF LONGITUDE, when  
error arises from incorrect Latitude. By Gilbert F. Key, Comman-  
der, R.N. 1s.
- DEFINITIONS OF THE TERMS USED IN NAUTICAL ASTRO-  
NOMY AND NAVIGATION. H.M.S. "Britannia." 2s. 6d.
- LABROSSE'S AZIMUTH TABLES,  $61^{\circ}$  N. to  $61^{\circ}$  S. (Explan-  
ations in English, French, German and Spanish).
- ELEMENTARY LESSONS IN ASTRONOMY. By J. F. Norman  
Lockyer. 5s. 6d.

### NAUTICAL SURVEYING.

- HYDROGRAPHICAL SURVEYING. By Captain Wharton. 15s.
- THE PRACTICAL AND THEORETICAL STUDY OF NAUTICAL  
SURVEYING. By J. Knox Laughton. 6s.
- NAUTICAL SURVEYING. REPRINTED FROM ALSTON'S SEA-  
MANSHIP.
- PRACTICAL NOTES ON MARINE SURVEYING. By Captain  
R. C. Mayne, R.N. 10s. 6d.
- PRACTICAL SURVEYING, &c. By Staff-Commander Thos A.  
Hull, K.N. 2s.
- NOTES ON THE MANAGEMENT OF CHRONOMETERS AND  
MEASUREMENT OF MERIDIAN DISTANCES. By Admiral Sir Chas.  
F. N. Shadwell, C.B.

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*



## NAVAL PROFESSIONAL BOOKS.

(Continued.)

### SEAMANSHIP, RIGGING, MASTING, &c.

- SIR GEORGE NARES' SEAMANSHIP. 6th Edition. Revised and brought down to date, by Comr. A. C. B. Bromley, R.N.  
 ALSTON'S SEAMANSHIP. Revised by Commander R. H. Harris, R.N. 12s. 6d.  
 THE RIGGER'S GUIDE, AND SEAMAN'S ASSISTANT. By Chas. Bushell. 3s.  
 THE SAILOR'S POCKET BOOK ; Practical Rules, Notes, and Tables. By Capt. F. G. D. Bedford, R.N. Third Edition. 7s. 6d.  
 DARCY LEVER'S SEAMANSHIP ; or, the Young Officer's Sheet Anchor. 114 plates. Secondhand. £2 2s.  
 SAILS AND SAIL MAKING, WITH DRAUGHTING, &c. By Robert Kipping. 2s. 6d.  
 TREATISE ON MASTING, MAST-MAKING, and RIGGING OF SHIPS. With Tables of Spars, &c. By Robert Kipping. 2s.  
 THE SAILOR'S SEA BOOK ; complete in 2 parts.  
 PART I.—How to Keep the Log, &c.  
 PART II.—On Finding Latitude, Longitude, &c. 2s. 6d.

### NAVAL WARFARE, TEXT BOOKS, &c.

- TORPEDOES AND TORPEDO WARFARE ; Offensive and Defensive : being a complete History of Torpedoes. By C. Sleeman, Lieutenant, R.N. 57 pages of illustrations. 24s.  
 THE GUN, RAM, AND TORPEDO. Manœuvres and Tactics of a Naval Battle of present day. By Commander G. H. U. Noel.  
 HARVEY'S SEA TORPEDOES. With 12 Plates. 12s. 6d.  
 THE DUEL ; a Naval War Game. Invented and arranged by Capt. Philip H. Colomb, R.N., with explanations and rules of the Game and necessary scales, &c. 10s. 6d.  
 PROBLEMS IN NAVAL TACTICS. By Vice-Admiral Randolph, C.B. With 4 full-page diagrams. 2s.  
 THE GUNNERY DRILL BOOK. Corrected to 1882.  
 REMARKS ON THE MANŒUVRES OF TWO VESSELS IN ACTION. By Lieutenant G. R. Bethell, R.N. 2s.  
 QUESTIONS & ANSWERS IN THE AMMUNITION INSTRUCTION. By J. Kite. Price 2s.  
 COURSE OF INSTRUCTION IN GUNNERY SHIPS FOR OFFICERS AND MEN. 3d.  
 THE WAR SHIPS OF EUROPE, containing a description of the Construction, Armour and Fighting Power of Iron Clads of England. Crown 8vo. 10s. 6d.  
 DITTO DITTO New edition, enlarged. 30s.  
 THE QUEEN'S REGULATIONS & ADMIRALTY INSTRUCTIONS. New Edition, 1879. 2s. 6d.  
 ADDENDA TO DITTO. 6d.

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*



## NAVAL PROFESSIONAL BOOKS.

(Continued).

TEXT BOOK OF CONSTRUCTION AND MANUFACTURE OF Ordnance. Printed by Order of Secretary of State for War. Coloured Illustrations. Cloth Boards, 9s.

RIFLE AND FIELD EXERCISES AND AMMUNITION INSTRUCTIONS for Her Majesty's Fleet. 1s. 6d.

TEXT BOOK ON THE THEORY AND MOTION OF PROJECTILES ; the History, Manufacture, and Explosive Force of Gunpowder. 2s. 3d.

MANUAL AND FIRING EXERCISES FOR MARTINI HENRY RIFLE. For the Use of the Navy. By Authority. 3d.

TREATISE ON AMMUNITION. Third Edition. Corrected to November, 1881. 6s. 6d.

NOTES ON NAVAL GUNS ; Their Stores and Fittings. Compiled by J. Wood. Corrected 1st January, 1875.

GYMNASTIC EXERCISES, FENCING, &c. 2s.

NOTES ON GUNPOWDER AND GUN-COTTON. By Colonel Wardell, R.A., by order of Secretary of State for War. Price. 1s. 6d.

### ELECTRICITY, &c., Recommended for Torpedo Study.

ELECTRICITY ; Its Theory, Sources and Applications. By John T. Sprague. Post 8vo. 8s.

ELECTRICITY AND MAGNETISM. By Fleming Jenkin. Post 8vo. 3s. 6d.

LESSONS ON ELECTRICITY at the Royal Institution. By John Tyndall. Post 8vo. 2s. 6d.

MAGNETISM AND ELECTRICITY. By Frederick Guthrie. Post 8vo. 2s. 6d.

ELECTRICITY AND MAGNETISM. By Deschanel. 8vo. 4s. 6d.

ELECTRO TELEGRAPHY. By Frederick Beechey Fcp. 8vo. 1s. 6d.

BALFOUR STEWART'S LESSON SON ELEMENTARY PHYSICS 5s. 6d.

GANOT'S PHYSICS, Experimental and Applied. 820 Woodcuts. Post 8vo. 15s.

THE FORCES OF NATURE, By Amedée GUILLEMIN. Illustrated by 11 coloured plates and 455 woodcuts. £1 1s.

DESCHANEL'S NATURAL PHILOSOPHY. By Professor Everett. 18s.

BARNES' SUBMARINE WARFARE (American). Cloth. 25s.

VON SCHELIHAS' TREATISE ON COAST DEFENCE. With Maps and Plans. Royal 8vo. Cloth. 15s.

ELEMENTARY TREATISE ON ELECTRICITY. By James Clerk Maxwell, M.A. 7s. 6d.

HANDBOOK OF ELECTRICAL TESTING. By R. H. Kempe. 12s. 6d.

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*



## NAVAL PROFESSIONAL BOOKS.

(Continued).

### MEDICAL.

- DICTIONARY OF MEDICINE. By various writers. Edited by Richard Quain, M.D., F.R.S. 31s. 6d.
- OUTLINES OF NAVAL HYGIENE. By John D. Macdonald, M.D., F.R.S. With Illustrations. 12s. 6d.
- MANUAL OF PRACTICAL HYGIENE. By E. A. Parkes, M.D. 5th Edition. 18s.
- THE SURGEON'S POCKET BOOK. An Essay on Best Treatment of Wounded in War. By Surgeon-Major J. H. Porter. Second Edition. With 152 Illustrations. 7s. 6d.
- THE SCIENCE AND PRACTICE OF MEDICINE. By W. Aitken, 7th Edition. 2 vols. 42s.
- SURGICAL EMERGENCIES. A Manual for the Use of general Practitioners. By Wm. Paul Swain. 3rd Edition. 5s.
- MANUAL OF OPERATIVE SURGERY. By Lewis A. Stimson, B.A. Over 300 Illustrations. 10s. 6d.
- NAVY—DESCRIPTIVE AND SURGICAL. By Henry Gray, F.R.S. New Edition by T. Holmes. 28s.
- BRYANT'S MANUAL FOR THE PRACTICE OF SURGERY. New Edition. With 672 Engravings. 2 Volumes. 28s.
- GUNSHOT INJURIES; THEIR HISTORY, CHARACTERISTIC Features, &c. By Surgeon-General T. Longmore, C.B. 31s. 6d.

### STEAM, MAGNETISM, DEVIATION, &c.

- SENNETT'S MARINE STEAM ENGINE. For the use of Engineer Students and officers of Royal Navy. 21s.
- EVER'S STEAM AND THE STEAM ENGINE; Land, Marine and Locomotive. 3s.
- DRAWING & ROUGH SKETCHING FOR MARINE ENGINEERS. By Donaldson. 8s.
- MARINE ENGINES AND BOILERS; Pocket Book of Practical Rules for the Proportions of. By Burgh. 4s. 6d.
- SWIFT'S MANUAL OF THE HYDROMETER. 3s. 6d.
- MOLESWORTH'S ENGINEER'S POCKET BOOK. 6s.
- PROCTOR'S POCKET BOOK FOR MARINE ENGINEERS. 4s.
- MAXTON'S WORKMAN'S MANUAL OF ENGINEERING DRAWING. 4s.
- SPON'S TABLES AND MEMORANDA for Engineers. 1s.
- POCKET BOOK OF POCKET BOOKS. Hurst and Molesworth. 12s. 6d.
- EVANS' ELEMENTARY MAGNETISM, &c. 6s. 6d.
- ADMIRALTY MANUAL FOR DEVIATION OF THE COMPASS. 4s. 6d.
- MERRIFIELD'S MAGNETISM AND DEVIATION OF THE COMPASS. 1s. 6d.
- HANDBOOK OF THE LAW OF STORMS. By William Radcliffe Birt. 5s.

*Griffin & Co., Publishers, 2, The Hard, Portsmouth.*















