

INDEX

TO

PATENTS AND IMPROVEMENTS.

A.		Beddingfield, T. T.	appendix, No. 277
Addersley, William	appendix, No. 221	Benedict, Jare	“ 379
Air Engines	“ 5	Bereche, C. E. M.	“ 391 392
Alban, Earnest	“ 366	Bishop, James	“ 55
Alegne, Pierre	“ 311	Billingsly, Mathew	“ 79 172
Amontons	“ 11	Bennet, Thomas	“ 272
Anderson, James	“ 64	Bevan, W. M.	“ 175
Archbold, John F.	“ 128	Bizelow, Elisha	“ 403
Archimedes	chapter 1st. 1	Bloomfield, J. and C.	“ 353
Arnot, Niel	appendix, No. 237	Boaz, James	“ 97
B.		Booker, Nugent	“ 132
Baker, Stephen	appendix, No. 293	Bower, Joseph	“ 269
Bambridge	“ 244	Bourdice	“ 338
Barker, W.	“ 368	Bramah, H.	“ 29 66
Barlow, Robert	“ 387	Branca	“ 6
Barret, James	“ 89	Brindley	“ 16
Burton, John	“ 160 216	Bradley, James	“ 115
Bales, John	“ 225	Brodie, Alexander	“ 96
Beighton, Henry	chapter 1st. 13	Broderip, Charles	144 255 163
		Broomfield, John	“ 320
		Brown, S. Capt. R. N.	“ 318
		Bust, Peter	“ 411

h

(60)

K.		Miller, Samuel	app. No. 104	110
King, R. W.	appendix, No. 166	Mermont and Co.	"	339
Kearsing, Mr.	"	Money, Samuel	"	358
L.		Moore, John	"	219
Lane, Edward	appendix, No. 127	Moreland, Sir Samuel	"	8
Laming, Joseph H.	"	Muntz	"	177
Large, B.	"	Murdoch, William	"	44
Lash, W.	" 169	Murray, J. and A. Anderson	"	124
Lausin J. and A. Thayer . . .	"	Murray, Matthew	52 65 75	
Leach, John	"	N.		
Leach, Thomas	"	Nairn, W.	page 88	
Lester, William	"	Naucarrow, M.	appendix, No. 81	
Linklater, John	"	Nery, H. H.	"	398
Lloyd, Francis	"	Newcomen, Thomas	chap. I. 12	
Loqou, Michael	"	Neville, John	appendix, No. 185	
Lorey, J. W.	"	Nivelle, Thomas	"	258
Lymington, W.	"	Neville, James	" 301	386
M.		Nicholson, William	"	111
Mainwaring, G.	appendix, No. 189	Noble, Mark	"	122
Maccundy, John	" 295	Noble, William	"	165
Maccundy, John	"	O.		
Malone, John	"	Odica and Delavoni	appendix, No. 335	
Manby, Aaron	"	Oldham, John	190 214 388	p. 36
Martin, Thomas	"	Onion, William	"	156
Martique, M.	"	Ormond, Richard	"	238
Masterman, Thomas	"	Ort, R.	"	341
Mathesius	"	Osborn, Henry	"	153
Maudslay, Henry	" 112	P.		
Mead, Thomas	"	Palmer, G. N.	appendix, No. 246	
Merey, Charles	"	Papin, Doctor	Chapter I.	
Miers, Joseph	"			
Mickleham, R.	"			

(61)

Parkinson, W. and Crosley	appendix, No. 400	Rayley, William	appendix, No. 44
Parliamentary Evidence	page 39	Reedhead, John	" 333
Parkinson, Thomas	appendix, No. 72	Reid, Elisha	" 404
Parker, Joseph	" 213	Richards, R.	" 342
Partridge, Cawdon and Co.	" 121	Rider, Job	" 212
Partridge, Nathaniel	" 253	Rider, James	" 91
Paul, John and Thomas	" 263 285	Rich, Samuel	" 56
Perkins, Jacob	Chap. I. and VIII. 241 262 264 273 280 283 299	Rivou, Moulineé	" 309
Peck, Thomas	appendix, No. 399	Robinson, William	" 370
Pepper, John	" 37	Robins, Josias	" 109
Picquerre, O	" 343	Robertson, John and James	" 59
Phelps, D.	" 405	Radley, George	" 184
Philips, Benjamin	" 374	Rogers, Alexander	" 182
Philips, Daniel	" 231	Rosen, Count Adolphe, E.	" 371
Pöllock, Allen	" 113	Rountree, Thomas	" 42
Poole, Moses	" 188	Rutley, William	" 40
Poole, John	" 365		
Pontifex, John	" 210	S.	
Preston, Thomas	" 120	Sabin, A. Miles	appendix, No. 286
Price, H. H.	" 276	Sadler, James	" 30
Price, Thomas	" 118	Savary, Captain Thomas	Chap. I. 10
Pritchard, William	" 220	Saint, Thomas	appendix, No. 77
Ptolemy, Philadelphus	" 2	Sealy, Mr.	" 294
Purneck, John	" 288	Scantleberry, Richard	" 130
		Scott, John	" 195
Q.		Scobell, Captain R. N.	" 272
Quiros, G.	appendix, No. 48	Seaward, John	" 209
Quives, Joseph	" 78	Skene, Andrew Motz	" 408
		Skidmore, Thomas	" 291 292
R.		Smeaton,	" 21
Rapaso, Francisco	appendix, No. 47	Smith, James	" 265
Rastrick, John	" 167	Smith, Joseph	" 251
Radatz, J. C.	" 352	Stanhope, Earl of	" 67
Raymond, S.	" 340	Stanley, John	" 250
		Stead, John	" 23
		Steensbreet, Paul	" 409
		Stewart, John	" 19

GENERAL INDEX.

A.

Aback, taken, c. 3.
Abstract of an act of parliament, app.
Accidents, c. 4.
 ———- to boats, c. 4.
 ———- to persons, c. 4.
Act, abstract of, app.
Action, c. 4.
 ——— single, c. 4.
 ——— flotilla,
Admiral, H. R. H. Lord High, Ded. In.
 ——— their opinions, c. 1. In.
Alteration in Naval Tactics, c. 1.
Air, expansion, c. 1.
 ———cock, c. 1.
 ———engines, c. 1.
 ———pump, c. 1.
 ———piston, c. 1.
 ———valve, c. 1.
 ———vessel, c. 1.
Alcohol Engine, c. 1.
American, imp. c. 8, in.
Ancient Engine, c. 1.

Anchoring, c. 3.
 ———- in a tidesway, c. 3.
 ———- storm, c. 3.
 ———- calm, c. 3.
 ———- weighing, c. 3.
Appendages, c. 3.
Armament, c. 2.
Attack, modes of, c. 4.
Auxiliaries to men of war, c. 4.
Advantages, c. 1, 2.

B.

Ball, engine for, c. 1.
Beighton's, c. 1.
Beam, c. 1.
 ——— abaft the, c. 3.
 ——— before the, c. 3:
Boats, c. 3.
 ——— accidents to, c. 3.
Boilers, c. 1, 2. app.
 ——— waggon, c. 1, 2.
 ——— tube, c. 1, 8.

(64)

- Boilers, open, c. 1.**
 ——— Bancas, c. 1.
 ——— cased, c. 1.
 ——— Watt's, c. 1.
 ——— Perkin's, c. 8.
 ——— Gurney's, c. 8.
 ——— Blakey's, c. 1.
 ——— Woolfe, c. 1.
 ——— guage, c. 1.
 ——— self-acting, c. 1.
Bow, construction of, c. 1.
Buchanan, Robertson, List.
Brown, c. 1.
- C.
- Calm, c. 3.**
 ——— propelling in, c. 3.
 ——— experiments in, c. 3.
Capture, c. 7.
 ——— depending on steam, c. 7.
Causes of accident, c. 7.
Centrifugal force, c. 1.
Century of Inventions, c. 1.
Chronological Account, app.
Clarence, Royal Sextant, c. 9.
Cock, guage, c. 1.
Classes of steam vessels, c. 2.
Collision, c. 7.
Commerce, c. 5.
Commander, c. 3.
Comparison, c. 1, 3, 8.
Compression of air, c. 1.
 ——— steam, c. 1.
Condensation, c. 1.
Condensing by jet, c. 1.
 ——— pump, c. 1.
 ——— guage, c. 1:
- Condensing Gurney's, rappaatus, c. 3.**
Conclusion of subject, c. 8.
Construction, c. 2.
Consuming smoke, c. 3, app.
 ——— coals, c. 5.
Convoy, c. 5.
Cost of, c. 7.
Crank, c. 1, 7, 9.
Crews, c. 1, 3, 7.
Counterpoise, c. 1.
Cylinder, c. 1.
 ——— various, c. 1.
Costigin, c. 8. app.
- D.
- Damper, c. 1.**
Day, rules by, e. 7.
Dedication, p. 3.
Defence of Coast, c. 2, 4, 6.
 ——— Nation, c. 6.
Dimensions, tables of, c. 7.
 ——— Drogheda, c. 7.
 ——— Majestic, c. 7.
 ——— Lightning, c. 7.
 ——— United Kingdom, c. 7.
 ——— Comparative, e. 7.
Discoveries, Account of, e. 1, app.
Distress, assisting ships in, c. 3.
Digester, Papins, c. 1.
Desagulier's Engine, c. 1. app.
 ——— Experiments, c. 1.
Double acting engine, c. 1.
Drain spout, c. 1.
- E.
- East India Company, c. 5, in. app.**
Eduction pipe, c. 1.

(65)

- Ekins, Admiral, c. 1.
 Elasticity of Steam, c. 1.
 —— to raise Water, c. 1.
 —— to raise a piston, c. 1.
 Engineer, his duty, c. 1.
 Engine, Steam, History of, c. 1.
 —— Boilers, c. 1.
 —— Improvements, c. 8, app.
 —— List of Works on, c. 8.
 Equipment, c. 7.
 Evidences, Parliamentary, app.
 Evolutions, c. 4.
 Exhaustion Cock, c. 1.
 Expansion, c. 1.
 Experiments, c. 3, 8.
 —— Naval, c. 3.
 —— on Sternway, c. 3.
 Explosion, Causes of, c. 4, 7.
 External Condensation, c. 1.
- F.
- Farey, his Work, app. end.
 Fire place, c. 1, app.
 —— Engine, c. 1.
 —— Causes of, c. 4, 7.
 —— Engine invented, c. 1.
 First Engine, c. 1.
 —— Practical one, c. 1.
 —— Double acting Engine, c. 1.
 —— Use of Engine, c. 1.
 Fuel, method of supplying, c. 5.
 —— Experiments on, c. 5.
 —— quantity consumed, c. 5.
 —— comparative, c. 6, 8.
 Fog, Rules concerning, c. 7.
 —— Rate of Sailing in, c. 7.
 Forming the Line, c. 2, 3.
 —— no longer the same, c. 2, 4.
- Forming order of sailing, c. 4.
 Fortifying Paddle Wheels, c. 2, 8.
 —— Steam Vessels, c. 2.
 —— Coast Vessels, c. 2, 6.
 Flanch, c. 1.
 Floating Piston, c. 8, app.
 Flues, c. 1.
 Flywheel, c. 1.
 Force Pipe, c. 1.
 —— Pump, c. 1.
 Four way Cock, c. 1.
 Furnace c. 1, app.
 Friction, c. 1.
- G.
- Gale, c. 3.
 Glasgow, c. 8, app.
 Griffiths, Capt. c. 1.
 Greenock, c. 8, app.
 Guage on Boiler, c. 1.
 —— Condenser, c. 1.
 —— Pipe, c. 1.
 Gun, Steam, c. 1.
 Gunpowder, c. 1.
 Gurney's Engine, c. 8.
 —— Boilers, c. 8.
 —— Blower, c. 8.
 —— Condenser, c. 8.
- H.
- Hand gear, c. 1.
 Harbours, necessary, c. 1, 2, 6.
 —— Defence of, c. 2, 3, 6.
 —— Entering, c. 6.
 —— Sailing out of, c. 6.
 Head way, c. 3.
 Heated Air, c. 1.
 —— Water, c. 1.

(66)

- Hiero, c. 1.
 High Pressure Engine, c. 1, 6, 8.
 ————— superior, c. 7.
 Hooke, app.
 Hornblower, c. 1.
 Horizontal Arm, c. 1.
 ————— Cylinder, c. 1, 8.
 ————— Bar, c. 1.
 ————— Piston, c. 1.
 Horse Power, c. 1.
 Hot Water Cistern, c. 1.
 I.
 Importance of Steam, In. c. 1, 2, 8.
 Injection Pipe, c. 1.
 ————— Cock, c. 1.
 ————— invented, c. 1.
 ————— Water, c. 1.
 Instantaneous Condensation, c. 1.
 Inspection, necessity of, c. 7.
 Improvements, c. 8, app.
 ————— Chronological List of, app.
 ————— latest, c. 8.
 Introduction, page ix.
 Jacket, c. 1.
 K.
 Keeping Convoy within the limits, c. 5.
 L.
 Latest Improvements, c. 8.
 Light Breeze, c. 3.
 ————— before the beam, c. 3.
 ————— abaft the beam, c. 3.
 ————— before the Wind, c. 3.
 Line, to form, c. 4.
 Line of battle, c. 4.
 Lever beam, c. 1.
 Levers of Valves, c. 1.
 Locomotive Engines, c. 1.
 M.
 Manœuvres, c. 4.
 Marquis of Worcester, c. 1.
 ————— Chabannes, app.
 Maritime Purposes, In.
 Masts, c. 2, 6.
 Maudslay, c. 1, app.
 Man Hole, c. 1.
 Men of War, c. 2, 4.
 Men to Work, c. 6.
 ————— Number of, c. 6.
 Mercury, c. 1.
 Mines, c. 1.
 Millington, his book, c. 1, app.
 Motion, c. 1.
 Modes of attack, c. 4.
 Model, app.
 N.
 Navigation, Steam, c. 2.
 Naval Tactics, c. 2, 3, 4, 5, 6.
 Necessity of Inspection, c. 7.
 ————— of studying, c. 1, Int.
 ————— of change, c. 1, Int.
 Newcomen's Engine, c. 1.
 Nuncarrow's Engine, c. 1, app.
 Nozzles, c. 1.
 O.
 Object of the Treatise, c. 1.
 Objections, In. c. 1, 7, 8.

(67)

Obstacles to Invasion, c. 6.
 Objects, for measuring distant, c. 9.
 Officers, c. 3.
 Oelipile, c. 1.
 Oil, c. 1.
 Order of Battle, c. 4.
 ——— of Sailing, c. 4.
 Orders, c. 7.

P.

Packing, c. 1.
 ——— Piston, c. 1.
 Paddle Wheels, c. 1, 7, 8.
 ——— fortifying, c. 1.
 ——— damage to, c. 6, 7, 8.
 ——— protecting, c. 1.
 Parallel Motion, c. 1.
 Parliamentary Evidence, app.
 Parliament, Acts of, app.
 Parts of the Coast requiring defence, c. 6.
 Papin, c. 1.
 Parkington, app.
 Passage Vessel, c. 3.
 Patents, List of, app.
 Pender, Admiral, In.
 Pepper, J. c. 1.
 Perkins, c. 8.
 Pipes, c. 1.
 Piston, description of, c. 1.
 ——— moved by Steam, c. 1.
 ——— air, c. 1.
 ——— oil, c. 1.
 ——— in a cylinder, c. 1.
 ——— floating, c. 9.
 ——— chamber, c. 1.
 Placing the Engine, c. 2.
 Plunger, c. 1.
 Planet, Sun and Planet, c. 1.
 Plan of Fortifying, c. 2.

Portable, c. 8.
 Plug frame, c. 1.
 Potter, J. c. 1.
 Power of Engine, c. 1.
 Proof against Shot, c. 2.
 Principles of Steam Engine, c. 1, 2, In.
 Progress, c. 2.
 Proposed Rules, c. 7.
 Proportion of Steam Ships, c. 6.

Q.

Quadrant Wheel, c. 1.

R.

Receiver, c. 1.
 Regulations and Rules, c. 7.
 ——— Importance of, c. 7.
 Regulator, c. 1.
 Remarks on Patents, &c. app.
 Remedy to Accidents, c. 7.
 Reversing the Engine, c. 2, 8.
 Rigging peculiar to Steam Vessels, c. 2.
 River, propelling in a, c. 3.
 Red hot Shot, c. 2.
 Rotative Engine, c. 1.

S.

Sailing Vessels compared, c. 2.
 Safety Valve, c. 1.
 Savery's, Captain, Engine, c. 1.
 Saving of fuel, c. 6, 8.
 Sextant, Royal Clarence, c. 9.
 Self-acting Engine, c. 1.
 Sliding Valve, c. 1.
 Slow the Engine, c. 7.
 Smoke consumer, c. 8.
 Ships in distress, c. 3.
 Set on, c. 7.
 Starboard, c. 7.

(68)

Spring Beams, c. 1
 Steam Engine, History of, c. 1:
 ——— Ships and Vessels, c. 2.
 ——— Tactics peculiar to, c. 3.
 ——— Naval Warfare by, c. 4.
 ——— Convoys and Commerce by, c. 5.
 ——— comparative advantages, c. 1.
 ——— Ship's classes, c. 2.
 Sternway, c. 3.
 Storm, c. 3.
 Steam Engine, Works on, c. 8.
 Stuart, book on, app.
 Stroke of Piston, c. 1.
 Stuffing Box, c. 1.
 Suction Pipe, c. 1.
 Symington's Engine, c. 1, app.

T.

Tables of Dimension, c. 7.
 Tactics, great alteration in, c. 1, 2.
 Tables for measuring distance, c. 8.
 Tactics, Naval, necessity of studying, c. 1, in.
 ————— comparison, c. 1, in.
 Tappets, c. 1.
 Tallow used in the cylinder, c. 1.
 Temperature, c. 1.
 Throttle Valve, c. 1.
 Throat Pipe, c. 1.
 Trevithick, c. 1, app.
 Tidesway, c. 2.
 Two Cocks, c. 1.
 Tow, c. 5.
 Tryal Cocks, c. 1.
 Tables of Crews and Equipment, c. 7.
 Top Piece, c. 1.

U, V.

United Kingdom, Dimensions of, c. 7.

Vacuum, imperfect, c. 1.
 ——— by condensation, c. 1.
 ——— obtaining, c. 1.
 Valves, safety, c. 1.
 ——— various, c. 1.
 Vapour, c. 1.
 Vessels, Steam, c. 1, 2.
 ——— Construction of, c. 1.
 ——— Management of, c. 2, 3, 4, 5, 6.
 ——— for commerce, c. 5.
 ——— for war, c. 1.
 ——— for defence, c. 2, 4.
 ——— for convoys, c. 5.
 ——— for auxiliaries, c. 2, 3.
 ——— Dimensions of, c. 1, 7.

W.

Water Cock, c. 1.
 ——— raising a Column of, c. 1.
 ——— Chambers, c. 1.
 ——— Pump, c. 1.
 ——— Condensing by, c. 1.
 ——— Injection of, c. 1.
 ——— Wheel, c. 1.
 War, c. 2, 3, 4.
 Watt, James, his Engine, c. 1, app.
 ——— Improvements, c. 1.
 Wheel, Fly, c. 1.
 ——— Paddle, c. 2, 3, 8.
 Woolfe, his Engine, c. 1.
 Wooden Walls, Int.
 Worcester, Marquis of, c. 1.
 Works, List of, published, c. 8.
 Working Beam, c. 1.

Y.

Yards, proportion of, c. 2.
 ——— Description of, c. 2.
 ——— Dimensions of, c. 2.

FINIS.