

## ALPHABETICAL INDEX.

	Page.		Page.
<b>A.</b>			
Auxiliary plate, explanation of	2	Bockler, his method of converting direct cir-	
A 1, explanation of the subject	4	cular motion into alternate rectilinear	38
A 2, _____	10	Bunting, his calendering engine	40
A 3, _____	12	B 7', explanation of the subject	46
A 4, _____	28	Bettancourt, his machine for cleansing har-	
Archimedean screw, application of	26	hours	55
Alternate circular motion, by a vessel at		_____ his machine for the conversion	
single anchor	29	of direct circular motion, into alternate	
A 7, explanation of the subject	31	rectilinear motion	64
Auger, M. his movement for pump pistons	36	Branca, his method for ditto	ibid
A 7', explanation of the subject	46	Bucket engine for raising water, by M. Bet-	
Adjustment of an upper mill stone	66	tancourt	ibid
A 8, explanation of the subject	73	Bockler, his method of adjustment for the	
Anemometer by Leupold	86	stones of a mill	67
A 9, explanation of the subject	91	Breguet, his improvements in watch making	74
A 9', _____	106	B 8, explanation of the subject	79
Alix, M. his machine for drawing loads	100	Bettancourt and Breguet, their application	
Amaut, M. his dead beat watch escapement	106	of methods for changing the direction of	
Arnold, his free watch escapement	107	circular motion	87
A 10, explanation of the subject	117	Breguet, his methods of equalizing the action	
A 14, _____	135	of first movers	89
Autograph, mention of	136	B 9, explanation of the subject	91
A 17, explanation of the subject	137	Bucket engine for raising water, by Leupold	92
A 19, _____	153	Bingen, his rotatory motion	94
A 20, _____	155	Breguet, his equatorial clock	98
<b>B.</b>			
B 1, explanation of the subject	4	Bockler, a method of his for working pumps	100
Bossut, his corn mill	9	B 9', explanation of the subject	107
B 3, explanation of the subject	12	Breguet, his remontoire watch escapement	109
Borda, his memoir on hydraulic wheels	15	_____ his remontoire clock escapement	111
B 4, explanation of the subject	28	Berthoud, his free escapement	107, 108
Boitias, his hydraulic clock movement	30	B 10, explanation of the subject	118
B 7, explanation of the subject	32	B 14, _____	136
		B 17, _____	137
		B 19, _____	153
		B 20, _____	155

## ALPHABETICAL INDEX.

C.	Page.	Page.	
Classification of first movers	3	Dutch mill, description of	19
C 1, explanation of the subject	4	D 4, explanation of the subject	29
Corn mill by Bossut and Solage	9	D 7, _____	34
Centrifugal machine by Mour	12	De Caus, his hydraulic engine referred to	41
C 3, explanation of the subject	ibid	D 7', explanation of the subject	47
Cagniard Latour, his hydraulic engine	26	Detaching the working parts of a machine	
Crab engine	27	from the mover, observations on	48, 49
Clock movement, by Perrault	28	Dubuisson, his machine for pounding plaster	58
_____, hydraulic, by Boitias	46	Detaching animal first movers, method of, by	
C 4, explanation of the subject	29	M. Prony	68
C 7, _____	33	D 8, explanation of the subject	80
Cylinder of variable diameter	ibid	Droz, his flattening engine referred to	87
Churn, movement for	40	D 9, explanation of the subject	92
Calendering engine, movement for	ibid	Dead beat escapement	102
Crank movements	46	D 9', explanation of the subject	109
C 7', explanation of the subject	47	D 10, _____	121
Checks, on the application of, to machinery	48—59	Double piston pump, by Berger	138
Crane, reference to one, by Pinchbeck	53	Drill	143
Camus, M. his engine for driving piles	55	Drill bow	145
Cardinet's machine for an horizontal rotatory		D 19, explanation of the subject	154
motion for purposes of amusement	70	D 20, _____	156
C 8, explanation of the subject	80	E.	
C 9, _____	92	Explanation of the Synoptical table	1, 2
Cartwright, reference to his patent	95	E 1, explanation of the subject	5
Clock movements, reference to	97, 98	E 3, _____	15
Clock, equatorial, by Breguet	98	E 4, _____	29
Clock and Watch escapements, descriptive		E 7, _____	34
classification of	102, 103	E 7', _____	55
Crown wheel escapement	104	Endless Screw, application of	80
Clement, his escapement	105	E 8, explanation of the subject	ib.
Cylinder escapement of Graham	ibid	Equalization of the action of first movers,	
C 9', explanation of the subject	108	by Breguet	89
Compasses for describing curvilinear and		E 9, explanation of the subject	93
spiral figures	124	Equatorial clock, by Breguet	98
C 17, explanation of the subject	138	E 10, explanation of the subject	125
Curves, mechanical description of them	119	Engine for cutting screws, description of	132
Camus, his bolting machine	153	_____ fusees, ditto	ibid
C 19, explanation of the subject	154	E 17, explanation of the subject	142
C 20, _____	156	Escapement, by Volet	92
D.		_____, classification of the various	102, 103
D 1, explanation of the subject	5	_____, the crown wheel	104
D 3, _____	14	_____, the dead beat for seconds, by	
		Graham	ibid

ALPHABETICAL INDEX.

	Page.		Page.
Escapement, the dead beat cylinder, for watches, by Ditto	105	G 8, explanation of the subject	81
————, the dead beat, by Amant	106	G 9, —————	94
————, the free, by Arnold	107	Garousse M. his levers	99
————, by Berthoud	108	G 9', explanation of the subject	114
————, the free remontoire, by Haley	109	G 10, —————	127
————, the remontoire, by Breguet	ibid	Geometric pen, description of	129
Eccentricity of the planetary orbits, machine for exhibiting it	85	G 17, explanation of the subject	143
E 9', explanation of the subject	111	Gun barrels, method of rifling, by Jacquet, referred to	63
Ellipsographs, references to	125	———— in the manufactories of Versailles	
E 19, explanation of the subject	1	H.	
F.		H 1, explanation of the subject	6
F 1, explanation of the subject	5	Hydraulic ram, of Montgolfier	7
F 3, —————	15	———— spiral,	15
F 7, —————	35	H 3, explanation of the subject	ibid
Fly wheel, Cartwright's	47	Hydraulic wheels, memoir on them by M. Borda	15, 16, 17, 18
F 7', explanation of the subject	56	———— wheel, of M. Mannoury d'Ectat	24
First movers, classification of	3	Horizontal windmill	18
———— machine for suspending the action of, by Prony	62	Hydraulic machine, of Cagniard Latour	26
———— method of detaching animals from the working parts of a machine, when so used	63	———— clock movement, by Perrault	28
———— method of equalizing by Breguet	89	———— by Boitias	30
Force of the wind, machine for indicating it, by Leupold	86	H 7, explanation of the subject	39
Flattening engine, by Droz	87	Hydraulic engine, by De Caus	41
F 8, explanation of the subject	81	Harbours, machine for cleansing, by M. Bétancourt	55
F 9, —————	93	H 7', explanation of the subject	58
Fulton, his patent for a method of working pumps	91	Hydraulic machine of Marly, report on the re-establishment of	ibid
F 9', explanation of the subject	113	H 8, explanation of the subject	81
F 10, —————	126	H 9, —————	94
Fusees, engine for cutting them	132	H 9', —————	114
F 17, explanation of the subject	143	H 10, —————	128
Franklin, his double piston pump	ibid	H 17, —————	143
F 19, explanation of the subject	1	Hygrometer, by Leupold	127
G.		Henry, his machine for raising weights	100
G 1, explanation of the subject	6	Haley, his remontoire escapement	109
G 3, —————	15	I.	
G 7, —————	38	I 1, explanation of the subject	7
G 7', —————	58	I 3, —————	18
		I 7, —————	40
		I 7', —————	59

ALPHABETICAL INDEX.

	Page.		Page.
I 8, explanation of the subject	82	Machine for ribbon weaving	40
I 9, _____	95	_____ for raising masses of stone from the quarry	52
I 9', _____	116	_____ for cleansing harbours by M. Bétancourt	55
I 10, _____	129	_____ for pounding plaster	58
I 17, _____	144	_____ of Marly, report on the re-establishment of it	ibid
<b>K.</b>		_____ of White, description of it	59
K 1, explanation of the subject	7	_____ for the conversion of direct circular motion into alternate rectilinear, by M. Bétancourt	65
K 3, _____	20	_____ _____, by M. Branca	ibid
K 7, _____	40	_____ for an horizontal rotatory motion, by M. Cardinet	70
K 7', _____	62	_____ for polishing watch springs, by Thiout	72
K 8, _____	83	_____ for pounding the component materials of porcelain	77
K 9, _____	96	_____ for polishing mirrors, by Sureda	79
K 9', _____	116	_____ for changing the direction of circular motion	87
K 10, _____	131	_____ _____, application of it, by De Bétancourt and Breguet	ibid
K 17, _____	145	_____ for drawing loads, by M. Alix	100
<b>L.</b>		_____ for grinding and polishing mirrors	131
L 1, explanation of the subject	8	_____ for cutting piles under water	138
L 3, _____	23	_____ for exhibiting the eccentricity of the planetary orbits	85
L 7, _____	41	_____ for raising sunken vessels	138
Leslie, his tide mill	67	Mechanism, applicable to rose engine turning	120
L 8, explanation of the subject	85	_____ producing the sustaining power in watches	111
L 9, _____	97	M 3, explanation of the subject	24
L 10, _____	131	M 7, _____	42
Leupold, his movement for pump pistons	34	M 7', _____	64
_____ , his methods of converting direct circular motion into alternate rectilinear	36, 37	M 8, _____	85
_____ , his anemometer	86	M 9, _____	98
_____ , his bucket engine for raising water	92	M 10, _____	132
_____ , his hygrometer	127	Micrometrical adjustment, a screw for, by M. Prony	14
Levers, by Garousse	99	M 17, explanation of the subject	146
L 17, explanation of the subject	146		
<b>M.</b>			
Mannoury d'Ectot, M. le Marquis, his machine	10		
Mour, his centrifugal machine	12		
Mill, reference to one used in Holland	19		
Mill-stones, method of adjusting them	66—77		
Mirrors, machine for polishing them	79		
Montgolfier, his hydraulic ram	7		
Machine of Segner	12		
_____ for sawing stone	40		
_____ marble	ibid		

ALPHABETICAL INDEX.

N.	Page.		Page.
Nut and screw, properties of	12, 13	P 7', explanation of the subject	69
Noble, Mr. his pump	139	P 8, _____	88
N 3, explanation of the subject	24	P 9, _____	100
N 7, _____	43	P 17, _____	149
N 7', _____	66	Q.	
N 8, _____	86	Q 7, explanation of the subject	44
N 9, _____	99	Q 7', _____	71
N 10, _____	134	Q 8, _____	88
N 17, _____	146	Q 9, _____	100
●.		R.	
Overshot wheels	17	Ram, hydraulic, of Montgolfier	7
O 3, explanation of the subject	26	Ribband weaving, machine for	40
O 7, _____	43	Rose engine turning, mechanism applicable to	120
O 7', _____	67	R 7, explanation of the subject	45
● 8, _____	87	R 7', _____	72
O 9, _____	99	R 8, _____	89
O 17, _____	148	R 9, _____	100
P.		Rotatory motion, an horizontal one by	
Parallelemotion	5	Cardinet	70
_____ by parallel rollers	6	_____ by Bingen	94
_____ by reversed wedges	ibid	Ramelli, his application of certain movements	
_____ ruler	7	to working pumps	101
Pyrometrical movers	9	Raising water, engine for, by M. Bétancourt	64
Perrault, his clock movement	28	Roemer M. his mechanism for exhibiting the	
_____ engine for raising weights	29	eccentricity of the planetary motion	85
Pump pistons, a movement for, by M. Auger	36	Regulating mechanism, to correct the inequa-	
Piedmont, silk-mill of	80	lities of the moving power	88
Pumps, Fulton's patent for a method of		Raising water, machine for, by Leupold	92
working them	91	Rotatory motion, by Cartwright	95
_____ methods of working by Bockler	100	Raising weights, machine for, by M. Henry	100
_____ by Ramelli	101	S.	
_____ one by Noble	139	Segner, his machine described	12
_____ a double piston, by Berger	138	Spiral, the hydraulic	15
_____ by Franklin	143	Steam-engine, of M. Verzy	23
Pantograph, description of	136	Sawing marble, machine for	40
Piles, machine for cutting them, under water	138	_____ stone _____	ibid
Prony, his micrometrical adjusting screw	14	Silk reel, an Italian	43
_____ his method of detaching animal first		Silk mill, of Piedmont, description of	80
movers from the working parts of		Screw, endless, application of	ibid
machinery	68	Spiral compasses, description of	124
Pile engine, by M. Camus	55	Spiral lines, method of describing them on	
P 3, explanation of the subject	27	cylindrical surfaces	126
P 7, _____	44	Screws, engine for cutting	132

ALPHABETICAL INDEX.

	Page.		Page.
Sunken vessels, machine for raising them	138		
Synoptical plate, explanation of	1, 2		
S 7', explanation of the subject	72		
S 8, _____	90		
S 9, _____	104		
Sustaining power, on the preservation and communication of it	111		
<b>T.</b>			
Tide mill, by Leslie	67		
Turning, mechanism applicable to	120		
T 7', explanation of the subject	72		
Telegraph, application of the universal joint to its mechanism, by Bétancourt and Breguet	87		
T 9, explanation of the subject	104		
<b>U.</b>			
Universal windmill	24		
U 7, explanation of the subject	44		
Universal joint for effecting a change in the direction of mechanical movements	87		
U 9, explanation of the subject	105		
		<b>V.</b>	
		<b>W.</b>	
		Windmills, horizontal	18
		_____ with vertical sails	20
		_____ universal	24
		Wind gage, by Leupold	86
		Watch escapement, by Volet	93
		<b>X.</b>	
		<b>Y.</b>	
		<b>Z.</b>	
		Zureda, reference to his carding machine	34
		_____ his mechanism for converting rotatory motion into alternate rectilinear	41