To recapitulate: the gas made from one pound of coal would yield a candle light for fifteen hours; one pound of the gas would yield a light equal to one candle for seventy-five verted into light, it would be equivalent to the burning of a candle for 12,410 hours.

Thus it will appear that by our ordinary methods of gas lighting we utilize much less than one per cent of the energy stored in the coal. I think we may reasonably expect that electricity, as developed by the thermo-electric battery, the magneto-electric machine, or some still more efficient apparatus, will help us in some way to bridge the chasm between fifteen and twelve thousand hour candle lights from a pound of coal. Moses G. Farmer.

Salem, Mass.

Correspondence.

The Editors are not responsible for the opinions expressed by their correspondents.

"Wirbel-Bewegung."

MESSRS. EDITORS:-Are you aware that smoke rings are frequently produced during the firing of light and heavy ordnance, from smooth bore as well as from rifle cannon, and from 3-inch to 15-inch calibers? Sometimes they proceed from the vent, but I think the more beautiful ones are from the muzzle. They appear of a double character, a ring within a ring, and always remind me of the rings of Saturn. During the firing of the 8-inch rifle in April last at this post, one stormy day I observed a double smoke ring unravel itself from the clouds of smoke. It gradually ascended, moving with considerable velocity against a head wind in line of fire, and continued to rotate distinctly for several minutes, expanding by degrees and throwing off a stream of smoke from the outer edge. The space within the inner ring on this as on all occasions was free of smoke. Meantime the general smoke of discharge was blown quickly to the rear and over the ramparts, being a very unexpected sight. I called the attention of the Captain of Ordnance and of others to the fact, that the smoke rings on occasions moved against a head wind.

Prof. Nichol, author of the "Architecture of the Heavens," puts forth the theory that the gaseous heavenly bodies may throw off rings while in the nebulous state, being a result of the combined actions of contractions and rotations. He thinks the rings may break up and form satellites. He says, "were an elastic belt placed on a wheel and driven with great velocity, the belt would stretch and rotate by itself, and would continue so doing were it not for the earth's gravitations; but it appears now evident that rings of nebulæ may be formed under other conditions.

Fortress Monroe, May 13, 1867.

Russian America.

For a distance of nearly 1,000 miles, says a writer in the New York 'limes, the whole coast is thickly studded with islands of all sorts and sizes. The inland waters formed by these islands are as calm and unruffled as a mill pond. In the summer season it is a paradise for those who have no other goal in view than to exist in a free, untrammeled at mosphere, skim tranquilly along the quiet waters in light canoes, and at night pitch their tents on the nearest island. There is always plenty of game to be found. Besides water fowl of every description, the larger islands mostly abound with elk, deer, black bear and grouse.

The main land presents a series of inlets and arms of the sea, running far into the heart of the lofty coast range. There is scarcely an acre of decent farming land to be seen; in fact, we may travel a long distance and not discover a spot level enough to build a good sized house on.

The Stiken River is the fourth in volume and size on the west coast of North America, ranking after the Columbia, the Colorado and the Frazer. It empties itself by three channels into the Pacific, 70 miles below Sitka, and in about 57 degrees north latitude. It took us four and a half days to ascend 170 miles, while in descending the same distance the vessel made the journey in less than sixteen hours. For the first hundred miles or so, the river is walled in by huge mountains with peculiarly sharp volcanic cones or peaks, rising one above the other and covered with snow. The scenery is of the grandest and most stupendous nature and our little steamer, staggering and trembling against the swift current of the river, seemed a very cockle shell in the presence of these vast and silent creations of the Almighty. The most extraordinary natural feature that attracted our attention was a glacier or field of blue ice, about 40 miles up, on the north bank of the river. It is about 150 feet high on the river, and extends along the edge of the stream for eight miles, running back into a valley among the mountains as far as we could see. A cañon was finally reached, which baffled all attempts to pass through or around it, although several bold miners lost their lives before their companions gave up the hopeless effort to navigate the canon in their canoes. A land journey of 100 miles failed to find any practicable approach to the river, which was left unexplored farther.

A GRINDSTONE should not be exposed to the weather, as it not only injures the woodwork, but the sun's rays harden the stone so much as, in time, to render it useless. Neither should it stand in the water in which it runs, as the part remaining in water softens so much that it wears unequally, and this is a very common cause of grindstones becoming "out of true."

THE income of McCormick, the noted patentee of the reaping machine, was last year, \$169,760

LIFE-SAVING INVENTIONS.

The labors of the Commissioners are at last finished, the hours; but could all the energy in a pound of carbon be con- Board having adjourned on Friday May 24. It will necessarily be several weeks, however, before their voluminous report will be ready for publication. Below we give our readers a full list of all the inventions presented for examination, kindly

furnished us by the secretary	of the board, Mr. W. A. Stinphy. nly complete list yet published:	1
1. F. J. Latham	Sheet anchor. Water gage. Fire red thichisher. Water gage. Fire red thichisher. Water cask and life roat doublined. Mode of scaling bollers and tubes. Lowering, detaching and davits. Detaching apparatus. Apparatus for unlathing boats. Apparatus for unlathing boats. Lung coles, water gages, etc., comb. Steam whishe. Steam whishe. Steam whishe. Steam whishe. Method of mitding Yessels. Method of anchoring vessels. Steam gage. Lotaching apparatus. Detaching apparatus. Detaching apparatus. Detaching apparatus. Letaching apparatus. Letaching apparatus. Anti-incrustator. Reculator for propellers. Low water detector. Alcial file budy and life raft. Jockled visle. Low and detaching detaching apparatus. Low water detector. Alcialic life budy and life raft. Jockled visle. Life boat, lowering device, and mode of constructing vessels. Low water reporter.	1
4. Wm. V. Clark 5. Wm. V. Clark 6. W. P. Clark	Water cask and life roat doublined. Mode of scaling boilers and tubes.	
8. Thos. L. Reed 9. J. W. Bog ort 10. James Higher	Lowering, detaching and dayits. Detaching apparatus. Apparatus for unlashing boats. Improvement insteering apparatus.	
11. James Gregory. 12. James Gregory. 13. Peter Scofield	Gage cocks, water gages, etc., comb. Steam whistle. Steam gage.	40404
15. Thos. J. Brawn 16. Clinton Forevell 17. Clinton konsevelt	. Skir names my eye tott Sleeding lieful did life host somblined Method of milliang vessels Method of anchoring vessels.	1 4 6 6 6
18. N. Utroud. 18. M. V. & S. C. Nobles. 20. John Mitchell	Steam gage. Detaching apparatus. Detaching apparatus.	
22. Smith & Henis. 23. Smith & Henis. 24. A. Hicks	Magnetic water gage. Jacket for same. Steam steering apparatus.	22020
25. Bisbee & Co. 26. R. H. Dale 27. S. Barms.	Anti-incrustator. Regulator for propellers. Low water detector.	2000
29. C. W. Copeland. 30. D. P. Davis. 31. Janus E. Cole	Archite fulci. Archite fulci. Archite fulciter. Character of ocean water.	C4.08.24.3
32., M. T. Davidson & Co	Life boat, lowering device, and mode of constructing vessels.	2
35. E. D. Taylor 36. Wilson & Hauer (Louis Bauheffer 37. W_C. Marshall	Duplex slide valve,)Life-saving mattruss1 ire apparatus.	2 2 2
38. C. F. Matorana 39. Thomas W. Roys. 40. N. B. Allen	Depression of water. Life Barge. Detaching apparatus.	2
42. J. R. Vanghan. 43. Charles Rackett. 44. J. Harrison.	Lite boat. Life preserver. Boiler.	222
45. Moore & McFarland	Detaching apparatus. Detaching apparatus. Self-furling Sails. Detaching sails.	2 2 2 2
49. J. J. McIntyre. 50. Carl Hennis 51. George Ruli	Patent storm anchor. Pro eller. Detaching apparatus.	22000
52. John A. Olmstead	Life boat and trunk combined. Fatent car brake. Life boat and raft. Self acting boat hook	222222222222222222222222222222222222222
56. Frank Marguard 57. Charles H. Hasker 58. Marcus Hanan	Life preserver. Boat lowering and detaching app. Boat detaching apparatus.	2 2 2
ov. Adranam G. Polhemus	.r.re apparatus. .Life saving taekle. .Ship bed. .Life boat.	2 2
68. James Murtagh 64. Wm. R. Black. 65. J. Hiles	Life raft. Self-detaching hook. Water gage and steam alarm.	2
ov. Pump S. Justice. 67. Exbert P. Watson. 68. John Ryder. 69. N. Spencer Thomas	Steam gage. Low water streat. Life raft and gotta percha bolster. Anti-perusiator.	2
70. S. G. Cabbell	Anti-incrustator, proom, and screw for cleaning boiler. Anti-incrustator.	22222222222222
72. S. G. Cabbell 73. S. G. Cabbell 74. Fletcher & Harrison 75. John Zindorff	. Marine atmospheric alarm signal Door for ship's cabin Safety valves Safety valves.	22
76. Richard Montgomery 77. Joseph A. Miller. 78. George W. Brown.	Steam boiler. Anti-incrustator. Patent roelock and thole pin.	222
80. John W. Doughty. 81. Boyd Elliott (Well's) 82. James T. Horam	. Lite rait Syphon feed regulator Automatic Boller Feeder Safety valve.	222
83. E. A. Turner. 84. Carlish, Mason & Co. 85. Carlish, Mason & Co.	Steering apparatus. Locked safety valve. Detaching apparatus.	20,000
86. Cariish, Mason & Co. 87. C. L. Frink. 88. C. L. Frink. 89. H. N. Winans	water gage. Water gage. Safety valve. An ti-incrustator.	2404040
90. Worden, Rensford & Co 91. S. Bickerstaff. 92. S. Bickerstaff.	Syphon pump. Safety valve. Low pressure valve.	4040404
94. S. B. Palmer 95. E. R. Stillwell	· Detaching apparatus. · Low water alarm. · Feed water purifyer. · Alarm gage.	2000
97. G. H. Hart and E. Lumley 98. S. B. Coit & Co 99. F. Fellingbam	Patent rudder. Steam gage heater. Detaching apparatus.	0404040
101. James M. Miller 102. Wm. R. Bagley 103. James S. Newell	Heater and surface condenser. Detaching apparatus. Apparatus for cleaning boiler tubes.	4040404
104. James S. Newell 105. Brown & Level 106. Wm, A. Lighthall	spriog traveler, letaching apparatus, sartiace condenser. viro alse a televinoù	62,62,62
108. Brown & Level. 109. G. G. Forshey. 110. Julien M. Constantin.	Detaching apparatus. Steering apparatus. Patent lever for furling sails from deck.	2000
111. Edw. J. Monk 112. Josiah Foster 113. John W. Hill 114. George Shone	Detaching apparatus. Settee boats. Satety valves. Locked valves	2000000
115. George Shone 116. Flowers, Patten & Co 117. Flowers, Patten & Co	Hose coupling. Boat lowering and detaching apparatus Locked dayits and cradle.	0,0000
118. Benedict, Torry, and Gurwibly. 119. George T. Palmer. 120. Henry Mosley.	.Combination hosePatent floating (apparatus) anchorAnti-inerustator. Detaching apparatus.	000000
122. George F. Palmer. 123. Lorenzo Fulton. 124. W. H. Low	Moralife distr. Pressure indife def. Character of ocean waief. -team gage. Life boat, lowering device, and mode of constructing vesels. Low water reporter. Duplex slide valve, life-saying mattrass. Pire apparatus. Depression of water. Life Barge. Detaching apparatus. Safety valve. Lite boat. Life preserver. Boiler. Detaching apparatus. Belf-furling Salls. Detaching apparatus. Belf-furling Salls. Detaching apparatus. Jetaching apparatus. Belf-furling Salls. Jetaching apparatus. Life boat and trunk combined. Patent car brake. Life boat and trunk combined. Patent car brake. Life boat and detaching app. Boat detaching apparatus. Life saying tackle. Life raft. Self-detaching book. Water gage and steam alarm. Steam gage. Low water signal. Life raft. Self-detaching hook. Water gage and steam signal. Life raft. Self-detaching hook. Anti-incrustator. Anti-incrustator. Anti-incrustator. Anti-incrustator. Anti-incrustator. Anti-incrustator. Anti-incrustator. Anti-incrustator. Anti-incrustator. Patent roelock and thole pin. Life raft. Syphon feed vegulator. Anti-incrustator. Patent roelock and thole pin. Life raft. Syphon feed vegulator. Anti-incrustator. Patent roelock and thole pin. Life raft. Syphon feed vegulator. Anti-incrustator. Safety valve. Steering apparatus. Locked safety valve. Detaching apparatus. Locked safety valve. Detaching apparatus. Low water alarm. Feed water purifyer. Alarm gage. Safety valve. Low pressure valve. Detaching apparatus. Low water detector. Anti-incrustator. Syphon pump. Safety valve. Safety valve. Setering apparatus. Locked valves. Setering apparatus. Locked valves. Setering apparatus. Locked valves. Detaching apparatus. Low water alarm. Feed water purifyer. Alarm gage. Patent fooling apparatus. Setering apparatus. Low water alarm. Setering apparatus. Setering apparatus. Setering apparatus. Locked valves. Detaching apparatus. Anti-incrustator. Setering apparatus. Setering apparatus. Locked v	200000
126. William Moses. 127. J. W. Stiles. 128. Farren. Traft. and Knight	Low water indicator. Safety valve. Self-riding life boat. Detaching life boat. Detaching apparatus. Water ejector. Satety valve. Patent felt protector. Wood, etc., preserver. Steering apparatus. Low water detector. (Glass for cylinder for use of carbonic acid gas. Amalzamanion of copper and cobalt.	
129. John Ashcroft 130. Thomas Hanvey 131. William P. Hunt	Patent felt protector Wood, etc., preserver Steering apparatus.	
133. Henry Mosley	Glass for cylinder for use of carbonic acid gasAmalganiculon of copper and cobalt.	
135. Snow and Hurlburt. 136. F. Fellingham. 137. B. F. Miller.	.Glass for cylinder for use of carbonic acid gasAmalgamation of copper and cobaltDetaching apparatusLike-preserving berthSafets vesselDetached apparatusLeakage alarm gageHose complierMovable life preserving berthFire-proof paintDirect-acting safety valveLeakage indicatorCombination pumpSteering gearSelf-baling life boatSelf-acting pumpSignal lightDetaching apparatusLife boatPatentanehorMode of picking up boats at seaSteering and manœuving sail & steam vessels. Surf boat	
189. G. B. Massey. 140. Osborn and Massey. 141. John J. Clyde.	Leakage alarm gage. Hose coupling. Movable life preserving berth.	
142. M. W. Brown. 143. John Sutton. 144. H. J., Brevoor.	. Fire-proof paint . Direct-acting safery valve. .Leakage indicator. Combination pump	
146. W. M. Arnold 147. A. L. Shears 148. William Porter	Steering gear. Self-baling life boat. Self-acting pump.	
149. O. Warden 150. J. D. Mason	Signal lightDetaching apparatusLife boatPatentanchor	
153. L. D. Ingoldsby. 154. L. D. Ingoldsby.	. Mode of picking up boats at sea Steering and manœuvring sail & steam vessels.	
155. B. Smith 156. B. Smith 157. B. Smith 158. B. Smith	Surf boatLife boatVentilatorSteering apparatusSteam boiler feeder and low water	10000
159. J. N. B. Bond	Steam boler feeder and low water detector. Steam generator.	:
161. Henry Dirkes. 162. Henry Dirkes. 163. D. Regester 164. H. D. Tenkshurry	detector. Steam generator. Improved life boat. Method of anchoring. Self-adjusting hoek. Hose coupling and pipe. Safety valve. Fog trumpet. Life boat, surf boat detaching apparatus. Blower. Low water detector.	'
165. Abraham Inslee 166. Marine Signal Company	Safety valve. Fog trumpet. Life boat, surf boat detaching apparatus	
108. Walter P. Burroughs	Boat detached apparatus. Blower. Low water detector. Telegraphic night signal.	
170. E. H. Asheroft 171. G. A. Lillienthall 172. G. A. Lillienthall 173. John Wright 174. James McDonough	. Line rocket. Life raft. .Self-inflating raft	1

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	176. G. F. Darling.	Mro	Detaching apparatus.
	178. John Kennedy	m 8	Apparatus for a ving to in a gale.
е	180R. Robinson		Locked valve. Locked valve.
	181 Dovle	own	Detaching apparatus. Patent anchor.
"	183. John F. Coope	er	Folding water anchor or drag.
11	184J. H. Holbroge 185E. A. Wood		Steam gage.
11	186. Renjamin Smit	h	Improvement in constructing vessels.
y	188. Charles C. Tea	ton	Double look up safety valves.
7.	190::Thomas Hunti	ngton	swing foreing Regin Mekarbing appropria
:	191. Leant, Decker.		Anti-igdensfaker. Patent oaf
	193. W. Craig	1.1,	Hose coupling.
	194. Wilbert Banac 195. Barney McGir	1818	Improved hie boat. Steam boiler.
!	196. Henry McDono	ough	Life boat elevator.
	198 .Charles Perley	*******************	Hose coupling.
	200. Joseph Wood	&Co	Steam valve pump.
	201. Robert H. Grif 202. Daniel Barnun	Pth	Patent apparatus. Air-pump attachment.
-	203. N. H. Marston		Gage cock.
i	205. John B. Holme	es	High and low pressure boiler.
	206. F. E. Sickles 207. John Golding.		Steath steering apparatus. Life-saving mattrass.
1, :	208 Dr. Mannus Pr	rister	Propeller steering apparatus(withd'n).
	Mi James I. & Ed	ward Dryburgh	Impt in steam chimneys of boilers.
	211. Lythan B. Fifth	1	Detaching apparatus Steam generating apparatus.
	213. H. L. Stibbs		Temporary rudder.
	215. John Shaffer	Г	Barety valve.
i	! 216. John Schaffer	ell	Fusible alloyplug. Steam generator.
	218 . Charles Magge	8	Anti-incrustator.
	220A. Carr		Low water alarm detector.
	222. L. and H. Rayne.		To prevent collision of locomotives. Lock-up de achug apparatus.
Į	928, C. H. Wilson.	Brown	Saterlee's patent davit block.
١	33. W. C. Dodge	J	Detaching apparatus.
۱	227. God. O. Evans		Engine piston. Low water detector and aborm.
-	228. J. G. and J. Ed	ge	Signal lights, rockets, and I was to kets. Detaching apparatus
1	2:0. Francis N. Gov	· · · · · · · · · · · · · · · · · · ·	Steering apparatus.
Ì	232. E. Kellam	;	Construct assault. Detaching davit and cat block.
1	233. Geo. W. Richar 234. Chas. H. Rayte	dson	Safety valve. Life preserving spar.
ļ	235 R. B. Donaldso	n	Steam gage.
	237J. H. A. Gerick	e	furbinate force pump.
-	228. Par, Fox & Rol	hertsonl	Monitor and armor plated vessels.
	240. J. S. Jackson.		Detaching apparatus.
	242. S. Beckerstaf.		Low water detector.
	243. J. B. Russell	, . , ,	Covington's steering apparatus. Surf Boat
	Ho.T. C. Banks	I	Leak signal.
ı	247. Charles Dion		Fire alarm
ı	248. Howard and Cl 249. J. N. McIntyre	hase	Adjustable gage lock. Life raft.
	250. Daniel Clark	ot	Fog signal.
H	252. Edward L. Bro	wn & Co	Gage cock whistle.
	253J. R. N. Owen. 254G. Symmes		Spec, and draw'g elliptic rotary pump To esmalize exp, and to generate steam.
Ì	255. John A. Schule	3	Improved motive power.
Ì	W. Fox	······	Bartlett's expelling pump.
ļ	258. Tait and Avis.	18	Improved steam boiler.
1	260. E. B. Tannever	& Co,	Sige lights.
-	262. E. Spencer	паш	Steamboat wheel.
v]	263. Geo. Unit 264. Mee and Jacks	on	ice navigator. Hese coupling.
}	265. John A. Rolling	B	Shipping rudder.
	267. E. A. G. Roulst	tone	Life raft.
	268Wm. Ayeres at 269James Benson.	id Overton	Patent anchor. Feathering paddle wheel.
į	270. F. S. Schlesing	er	Pat ent steering indicator. Boat propuller.
١	272. Samuel B. Now	lan	Vertical cut-off steam safety valve.
ļ	274. Samuel B. Now	vian	Exhaust for sanitary ventilating ships.
	2/5. Samuel B. Now 276. Samuel B. Now	lan	App. for gen'g steam without a boller. Air cells to prevent found's of ships.
	277. John Unigley.	F	Flood ng machine & tire extinguisher.
	279. S. S. Chandler.	reyme	Lowering and detaching apparatus.
	280. Asanel Abbott	,	Water-proof safe.
- 1			
- 1	282. F.E. Stekles 283. John T. Ashley		Floating berth.
į	282. F.E. Stekles 283. John T. Ashley 284. Charles K. Par	yshall	Floating berth, Model of a safety valve
	282. F.E. Stekles 283. John T. Ashley 284. Charles K. Pari 285. D. F. Morsema 286. Philip Hoelzel	yshall	Model and tank for boat. Floating berth. Model of a safety valve Power Governor. Improved steam generator.
	232. F. E. Stkles 233. John T. Ashley 234. Charles K. Pari 255. D. F. Morsema 266. Philip Hoelzel 287. A. F. Crossmar 283. C. Williams	yshall	Model and task for boat. Floating berth, Model of a safety valve Power Governor. Improved steam generator. Boat-lowering and hoisting apparatus. Life buoy.
	232. F.E. Stekles. 283. John T. Ashley 284. Charles K. Par 285. D. F. Morsema 286. Philip Hoelzel 287. A. F. Crossmat 288. C. Williams. 289. I. W. Reids.	yshall	Model and that for boat. Floating betth, Model of a safety valve Fower Governor. Improved steam generator. Boat-lewering and hoisting apparatus. Life buoy. Improved tubular boiler.
	232. F. E. Stekles. 283. John T. Ashley 284. Charles K. Par. 285. D. F. Morsenta 286. Philip Hoelzel. 287. A. F. Crossmar. 288. C. Williams. 289. I. W. Rerds. 290. Alvin Walker. 281. R. Fletcher.	shall. 	Motter and that for boat. Floating berth, Model of a safety valve Power Governor, Improved steam generator. Boat-lowering and hoisting apparatus. Life buoy, Improved tubular boiler. American submerged ship pump. Tidal alarn upparatus.
	282, F. E. Stokies 283, John T. Ashley 284, Charles K. Par. 285, D. F. Morsenta 286, Philip Hoelzel 287, A. F. Crossmar 288, C. Williams 289, I. W. Reids 290, Alvin Walker. 291, R. Fletcher 292, Charles Hopkin 293, R. Waddell.	shall	Motter and that for boat. Floating berth, Model of a safety valve Power Governor, Improved steam generator. Boat-lowering and hoisting apparatus. Life buoy, Improved tubular boiler. American submerged ship pump. Tidal alarm apparatus, Larsdelle's double-suc'n steam siphon. Hydraulic marine governor.
	282, F. E. Stokles. 283, John T. Ashley. 284, Charles K. Par. 285, D. F. Morsenus. 286, Philip Hoelzel. 287, A. F. Crossnar. 288, C. Williams. 290, Alvin Walker. 290, Alvin Walker. 292, Charles Hopki. 294, W. Fitz Janes. 294, W. Fitz Janes. 295, A. T. Havos.	rshall	Motter and that for boat. Floating berth, Model of a safety valve Power Governor, Improved steam generator. Boat-lowering and hoisting apparatus. Lite buoy. Improved tubular boiler. American submerged ship pump. Tidal alarm apparatus. Larsdelle's double-suc'n steam siphon. Hydraulic marine governor. Hydro'c ventilater & auto'c ship pump. Anti-increptator.'
	282, F. E. Stokles 283, John T. Asiley 284, Charles K. Par 285, D. F. Morsensa 286, Philip Hoelzel 287, A. F. Crossmar 288, C. Williams 289, L. W. Rerds 290, Alvin Walker 291, E. Fletcher 291, E. Fletcher 292, Charles Hopki 293, R. W. addell 294, W. Fitz James 285, A. T. Hayes. 287, A. T. Hayes.	rs. Thiers.	Moter and task for boat. Floating berth, Model of a safety valve Power Governor, Improved steam generator. Boat-lowering and hoisting apparatus. Lite buoy. Improved tubular boiler. American submerged ship pump. Tidal alarm apparatus. Larsdelle's double-suc'n steam siphon. Hydralic marine governor. Hydro'c ventilater & auto'c ship pump. Anti-incr pastafor; Danger indicator Sollerar action with boat.
	282. F. E. Stekles 283. John T. Ashley 284. Charles K. Par 285. D. F. Morsenia 285. D. F. Morsenia 286. Philip Roel2cl 287. A. F. Horsenia 288. C. Williams 289. J. W. Rerds 289. R. Fletcher 291. R. Fletcher 292. R. Waddell 293. R. Waddell 294. W. Fitz James 285. A. T. Hayes 285. A. T. Hayes 286. A. Arnold 287. John Stoan 288. C. H. Griffin	rsiall	Moter and take for book. Model of a safety valve Power Governor. Improved steam generator. Boat-lowering and hoisting apparatus. Life buoy. Improved tubular boiler. American submerged ship pump. Tidal alarm apparatus. Larsdelle's double-suc'n steam siphon. Hydraufe marine governor. Hydro'e ventilator & auto'c ship pump. Anti-incrustator. Oanger Indicator. Self-proj ciling life boat. Automatic water inspector.
	282. F. E. Stekles 283. John T. Asiley 284. Charles K. Pan 285. D. F. Morsenia 285. D. F. Morsenia 287. Philip Roelezel 287. A. H. Grossmar 289. L. W. Hends 289. L. W. Hends 290. Alvin Walker 291. R. Fletcher 292. Charles Hopkin 293. R. Waddell 294. W. Fitz James 294. W. Fitz James 295. A. T. Hayes 296. A. Arnold 297. John Sloan 298. C. H. Griffin, 299. Charles M. Cre 300. Bond. Turnbul	National State of the Control of the	Moter and take for bote. Model of a safety valve. Model of a safety valve. Power Governor. Improved steam generator. Boat-lowering and hoisting apparatus. Life buoy. Improved tubular boiler. American submerged ship pump. Tidal alarm apparatus. Larsdelle's double-suc'n steam siphon. Hydradic marine governor. Hydro'e ventilater & auto'eship pump. Anti-incrustator: Danger indicator: Self-projeding life boat. Automatic water inspector. Anti incrustator Steam-boiler feeder.
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	350. John Moody 351. Mr. Raymond. 352. L. Raymond. 353. P. Kennedy 354. R. F. Crane 355. A. C. Boon		Light snip. Self-trimming patent wind sail. Rowlock. Engineer's signal bell. N. W. Mfg Co's low water indicator. Wing life boat.

Recent American and Foreign Latents.

Under this heading we shall publish weekly notes of some of the more prominent home and foreign patients.

CONVERTING RECTILINEAR MOTION INTO ROTARY .- J. A. Ehle, Greenburgh, -This invention consists in operating a balanced lever or working beam withsliding carriages and hooks attached, upon polygons or triangles, so that the powershall be transmitted to a shaft in a continuous rotary mo

Line rocket. Life raft. Self-inflating raft