casemates, the Russian cruisers carried but few of their guns in casemates, most of the pieces depending upon gun shields for protection. The Japanese, in this fight as in that off Port Arthur a few days before, elected to make the conflict a battle between gunners. They appear to have remained at long range (though the reports of the Japanese and Russian admirals do not agree on this point), and trusted to their superior pieces and better gunnery to

disable the enemy at the cost of a minimum amount o f damage to t h e mselves. This was obviously the proper course for the Japanese. Such fighting would have to be done mainly by the 8-inch and 6 - inch guns, and of the 8-inch Russia possessed but twelve guns against sixteen carried by the Japanese: moreover four of those twelve were the short 30caliber pieces of the "Rurik," whose velocity and range were very limited. Hence, in the earlier stages of the fight, the Japanese must have been able to reach the Russian ships with a b o u t

Scientific American

of construction and tactics once more strongly verified. That the speed of the fleet is governed by the speed of the slowest ships was proved by the fact that the slower "Rurik" dropped behind and became the target for a terrific concentrated fire from the four Japanese cruisers; and although the two faster Russian ships repeatedly returned to her assistance, they were themselves so hard hit in doing this that they were forced to leave the "Rurik" to her fate. The sugo far to enhance the value of the copper bottom in future warship construction.

> THE NEW BALDWIN AIRSHIP. BY J. MAYNE BALTIMORE.

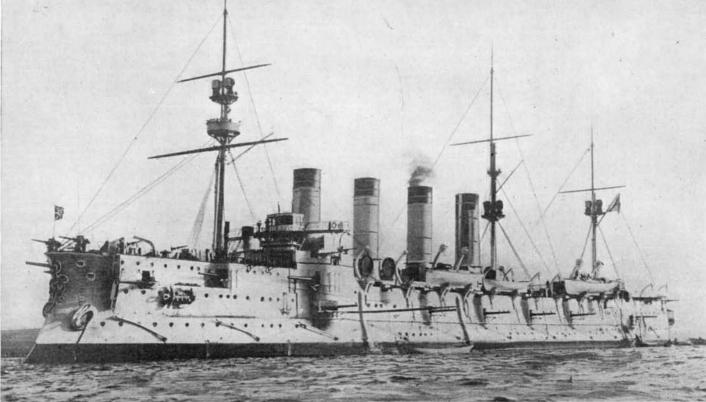
Capt. T. S. Baldwin, of Oakland, Cal., is the recent inventor and constructor of what proves to be a very successful dirigible airship.

The first and initial trial of the craft was made

from Idora Park. Oakland Since then several other trials have been made, all of which

No high altidetermine if the movements of his ship could be controlled. He ascertained that this could be done quite easily.

At a height of about 700 feet, he circled several times clear around the large park, going both against and with the wind. and moving at various angles. After being up nearly a n hour, Capt. Baldwin



Displacement, 12,367 tons. Speed, 20 knots. Coal Supply, 2,500 tons and liquid fuel. Armor, belt, 6-inch; deck, 2 inch; secondary belt. 4-inch; casemates, 6-inch. Armament, four 8-inch; sixteen 6-inch; twenty 3-inch; twenty-four small guns. Torpedo Tubes, four. Complement, 800. ARMORED CRUISER "GROMOBOL," SEVERELY DAMAGED IN KOREA STRAIT ENGAGEMENT.

twice the number of 8-inch pieces that the Russians could hope to make effective upon the Japanese ships. In the 6-inch pieces, the Japanese had a tremendous superiority, carrying fifty-four against the sixteen mounted by the "Gromoboi." The "Rossia" and the "Rurik," it is true, mounted sixteen 5.5-inch guns apiece; but the one-half inch drop in caliber means a big drop in striking energy and carrying power, and it is doubtful if the 5.5-inch guns were able to do much effective work in this long-range fight.

It is a question as to which squadron had the advantage in the matter of speed. For although the Japanese ships were credited with from 21 to 22 knots trial speed, they were not sheathed, and for some months they have been tied closely to the task of watching the Straits to prevent a junction of the Port Arthur and Vladivostock squadrons; hence their bot-

toms were probably very foul, and their speed not much better than that of the "Rurik," or, say, about 15 knots an hour. The immense advantage of sheathing and coppering was shown at the close of the fight, when "Gromothe

perior armor carried by the newer Russian ships showed its value in protecting the water line from vital injury. The softer and less extensive water-line belt of the "Rurik" presented a weak point which the Japanese were quick to take advantage of. She was evidently so badly hulled that her ultimate sinking was only a question of time.

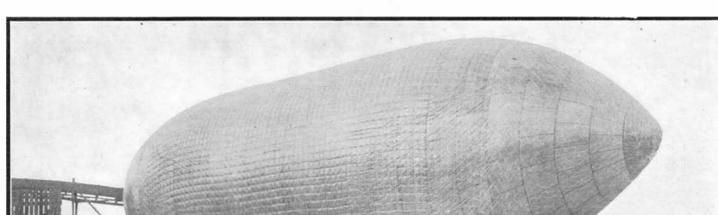
The two sheathed cruisers which escaped to Vladivostock present an interesting problem for the Japanese to solve. With their copper bottoms and with the large Vladivostock drydock available for cleaning, unless their engines have been seriously disabled, they can prey upon commerce without any fear of being captured for many months to come. For it is doubtful if there are any Japanese ships that can be put into condition to match them in speed. There can be little doubt that the experience of these ships will

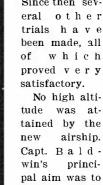
brought his ship back to the starting point, and safely descended to earth. These trials were witnessed by great crowds of spectators.

Subsequent trials have also been made, when it was demonstrated that in every revolution of the large propeller, and in every move of the steering gear, and of the weights which raise or lower the vessel at will, the plans of the inventor have been carried into effect. The large propeller, having two metallic blades, and nearly 6 feet in diameter, instead of being placed at the stern, is located at the bow of the frame or car, as in most recent airships of this type. In this manner the airship, instead of being pushed through the air, is pulled. This facilitates the steering as well as raising or lowering the ship.

The balloon, by means of which the whole machine is raised, is somewhat blunt cigar-shaped. It meas-

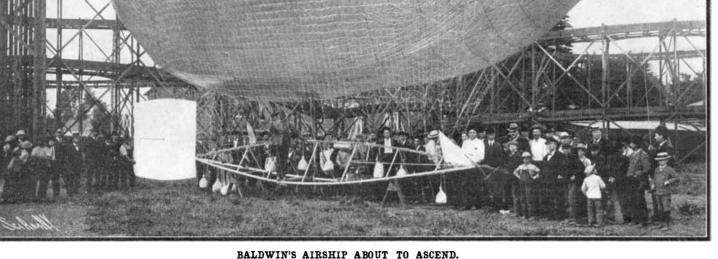
ures 54 fect in length and is 17 feet in diameter in the middle. The balloon is constructed of a very fine quality of silk, extremely strong and flexible, and with the reticulated netting which attaches it to the car. weighs only 90





boi" and "Rossia," which should have been captured or sunk by the victorious Japanese, were able to draw a way and make good their escape to Vladivo stock.

There is no new lesson taught by the fight. We simply see the accepted theories



balloon is inflated with hydrogen gas, and at an ordinary distension pressure contains 8,000 cubic feet. To this balloon is attached the frame which supports the propelling and steering mechanism. This frame, which is made of

pounds. The

strong, light wood, is triangular in shape, plug in the crown-sheet a valve may be quickly the three ends uniting at a center at each extreme. This frame is 48 feet long, the bex and extinguishing the fire, and also and is very securely braced and lashed. enabling the fire under such conditions to be It has been thoroughly tested and will properly attended to or drawn or banked withsupport 1,400 pounds with safety.

The engine which drives the propeller is one of the ordinary gasoline type, furnishes 7 horse-power, and weighs 60 pounds. The transmitting mechanism is so adjusted and geared as to cause the in which an advertisement may be inserted and propeller to make 150 revolutions per removed at will, which advertisement may minute. Just what speed can be obtained be made to appear upon one or both sides under ordinary conditions, has not yet of the panel. Another is to provide a frame been definitely determined by the inventor.

below the balloon-about 12 feet-and having a swivel connection with the frame weighs 65 pounds. The total weight of the panel and the lower a flexible connecthe airship is 220 pounds, while its buoyancy will lift nearly 500 pounds. The rudder, which is rectangular in shape, $5\ x\ 3\frac{1}{2}$ feet, is very easily manipulated $_{\rm RACKER},$ Louisville, Ky. The design in this from any part of the car; and the engine patent is a stove ornamented throughout its is regulated by a steel lever. One person can very easily navigate this airship. The aeronaut can sit about midway of even deer which may be utilized for any dethe frame, or he may move about freely sired purpose. if necessary without disturbing the general equilibrium to any extent.

bow to stern, or vice-versa, permits the airship to be raised or lowered at will. a feature borrowed from Zeppelin's craft. Business and Personal Wants. Capt. Baldwin intends soon to construct another frame that will be 6 feet longer and 15 pounds lighter. He thinks it will increase the speed and facilitate the steering.

So confident is the inventor and builder of success that he has already entered his airship in the \$1,000,000 prize com petition at the World's Fair. Capt. Bald- for gasolne engines. win expects to start soon for St. Louis with his aerial machine.

In working the ship, the propeller may be reversed at pleasure, thus pushing the vessel backward, whenever the same is necessary or desirable. The trials showed that the ship very readily obeyed her helm.

RECENTLY PATENTED INVENTIONS. Electrical Devices.

THIRD-RAIL SYSTEM.-T. JENKINS, New York, N. Y. In this case the invention relates to the third-rail system for the propelling of cars, its principal objects being to furnish an Lane Mfg. Co., Box 13, Montpelier, Vt. curcuive protecting-cover for the rail and a inquiry No. 5903.-For manufacturers of spring convenient support for the contact-shoe which motors. will permit the shee to be moved into and out of the cover and coaction with the rail.

ELECTRIC TROLLEY.-G. ONDO, Delancey, Pa. The invention has reference more especially to what are technically known as "trolley-finders," and one of the principal objects thereof is to overcome numerous disadvantages and objections common to many other structures hitherto devised for a similar purpose. The means employed guide the device to assume the proper relation with the conductor and retained in such relation and the same separated entirely from the conductor when desired.

Machines and Mcchanical Devices.

FRICTION - CLUTCH .--- C. SEYMOUR, Defiance, Ohio. The object of the invention is to provide a new and improved clutch arranged to hold a movable part under ordinary conditions in position, to allow a limited yielding | jewelers' and foot lathes. movement of the said part when under an ordinary strain, and to permit the parts to move any desired distance when under an excessive strain. It is a division of the application for Letters Patent of the United States

brought into action to close the receiver for the plug, and thus prevent steam from entering out undue peril to the stoker or fireman.

Railways and Their Accessories.

HAND-STRAP FOR CARS .- J. S. PAXTON New York, N. Y. The purpose of the invention is to provide a strap for cars having a panel for the panel, into which the panel may be readily introduced or from which it may be quickly removed, and also to provide a strap The frame, or car, is placed directly in two sections, upper and lower, the upper tion with the frame.

Designs.

DESIGNS FOR A STOVE.-J. P. OUERside by an attractive scroll work which gives a pleasing ernamental effect and prevides a graceful and artistic panel in the "iddle of the

be furnished by Munn & Co. for ten cents each. A weight, which can be shifted from Please state the name of the patentee, title of the invention, and date of this paper.

READ THIS COLUMN CAREFULLY.-You will find inquiries for certain classes of articles numbered in consecutive order. If you manu-facture these goods write us at once and we will send you the name and address of the party desir-ing the unformation in every area if is program. send you thename and address of the party desir ing the information. In every case it is neces-sary to give the number of the inquiry. MUNN & CO.

Marine Iron Works. Chicago. Catalogue free.

AUTOS.-Duryea Power Co., Reading, Pa.

Inquiry No. 5898.-For the manufacturers and the British agent for the "Bliss" log. "U.S." Metal Polish. Indianapolis. Samples free

luquiry No. 5899.-For puzzles for advertising purposes.

Perforated Metals, Harrington & King Perforating Co., Chicago.

Handle & Spoke Mchy. Ober Mfg. Co., 10 Bell St.,

Chagrin Falls, O.

Inquiry No. 5901.-For machines for weaving straw hats. If it is a paper tube we can supply it. Textile Tube

Company, Fall River, Mass. Inquiry No. 5902.—For a captive balloon to raise "persons 300 feet high.

Sawmill machinery and outfits manufactured by the

American inventions negotiated in Europe. Wenzel & Hamburger, Equitable Building, Berlin, Germany.

Inquiry No. 5904 .- For makers of gas stoves and gas heaters.

Patent No. 658,853, "Safety Device for Elevators" for sale. Address H. S., 265 Orange Street, Now Horan Conp. New Haven, Conn.

Inquiry No. 5905.—For parties to turn out a new form of gasoline mantle burner in large quantities.

In buying or selling patents money may be saved and time gained by writing Chas. A. Scott, 360 Cutler Building, Rochester, New York.

Inquiry No. 5906.-For machines for planting young onions.

The celebrated "Hornsby-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Machine Company Foot of East138th Street, New York.

Inquiry No. 5907.-For makers of tool handles and small articles of walnut.

Patented inventions of brass, bronze, composition aluminum construction placed on market. Write to



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HINTS TO CORRESPONDENTS.

Names and Address must accompany all letters or no attention will be paid thereto. This is for our information and not for publication. Beferences to former articles or answers should give date of paper and page or number of question. Inquiries not answered in reasonable time should be repeated; correspondents will bear in mind that some answers require not a little research, and, though we endeaver to reply to all either by letter or in this department, each must take his turn.

his turn. Buyers wishing to purchase any article not adver-tised in our columns will be furnished with addresses of houses manufacturing or carrying the same. Special Written Information on matters of personal rather than general interest cannot be expected wittent remueration

rather than general interest cannot be experi-without remuneration. Scientific American Supplements referred to may be

had at the office. Price 10 cents each. Books referred to promptly supplied on receipt of Minerals sent for examination should be distinctly marked or labeled.

(9445) R. G. P. asks: Could two sets of storage batteries be put into a vehicle so that one set will be running the vehicle and the other will be charged by the same vehicle; Cart and how fast has a dynamo got to run to make electricity? A. If a storage battery is Carte doing the work of running a vehicle it will not have any power left with which to charge an-vehicle. It would not be economical to use a storage battery for the purpose of charging | another storage battery. There is always a percentage of loss in transforming electricity from one form to another. A dynamo may be built to run at various speeds up to several thousand turns per minute.

(9446) LeG. L. W. asks: I am in want of information how to make small spark or induction coils, etc. Where may I find same? A. You will find in our SUPPLEMENT No. 160, which we send for ten cents, full instructions with all needed illustrations and drawings for making an induction coil which may give a spark from 1 inch to 1½ inches in length. SUPPLEMENT No. 1124, price ten cents, treats in a similar way a coil giving a spark 6 inches long. In Norrie's "Induction Coils," price \$1, you will find details of coils giving sparks from 1/2 inch to 12 inches in length. Among these you can surely find what you want. We shall be plaged to receive your order for the beeks yeu wish.

Inquiry No. 5900.-For makers of steam or hot INDEX OF INVENTIONS water heating apparatus for greenhouses. For which Letters Patent of the United States were Issued

for the Week Ending

August 16, 1904

AND EACH BEARING THAT DATE

[See note at end of list about copies of these patents.]

 Awnings, means, for operating redier, * L.
 767,959
 Jish

 Awnings, means for operating redier, * L.
 767,959
 Ju

 Baby walket, C. H. Stoyer
 767,767
 Tor

 Bags, etc., machine for settling material in,
 Word
 Tor,767,969

 Bags, etc., machine for settling material in,
 W. E. Nickerson
 767,769

 Baling machine, straw, H. Sauler
 767,669
 Door of the settling material in,

 W. E. Nickerson
 767,679
 Door of the settling material in,

 Barling press, W. R. Colman
 767,631
 Door of the settling material in,

 Barling press, W. R. Colman
 767,661
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 Barling press, W. R. Colman
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 Bearing, centrifugal machine clastic collar,
 767,662
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 Bearing, centrifugal machine clastic collar,
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 Doar for the settling material in,

 Beditaed, J. J. Robinson
 767,501
 Draft
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 Bedstead, J. J. Robinson
 767,680
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 Bed screen, A. L. Gullie
 707,680
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| ding block, J. A. Noble | 767,494 |
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| ding block, J. A. Noble glar alarm, J. Wheeler ishing machine, E. McDonald on, F. R. White | 767,786 767,653 |
| hishing machine, E. McDonald on, F. R. White on, cuff, D. Nideroest on, cuff, D. Nideroest on, cuff, D. Nideroest on, cuff, D. Nideroest onhole cutting and stitching machine, E. B. Allen met, kitchen, C. E. Sullivan met, kitchen, F. Miller e carrier knocker, P. A. Myers ie traction system, G. W. Sanders ulating machine, W. F. Yaxley. opener, W. R. Holder teding machine, H. S. Gordon y, terpede, P. R. Roberts opener, W. E. Holder opener, W. E. Holder opener, W. R. Holder opener, W. R. Holder doer, freight, E. T. Hanson dump, S. Otis dump, S. Otis dusting side bearing, G. Galloway. railway, F. S. Ingoldsy sleeping, P. Synnestvedt unloading device, W. F. Traves vestibule curtains, catch device for, J. G. Barry vestibule, etc., diaphragm, Donaldsen & | 767,461 767,826 |
| •n, tufting, H. Higgin •nhole cutting and stitching machine. | 767,885 |
| E. B. Allen | 767,539 |
| work clamp, E. B. Allen | 767,540 |
| net, kitchen, F. Miller | 767,908 |
| le traction system, G. W. Sanders | 767,837 |
| opener, W. R. Holder | 767,468 767,755 |
| lle extinguisher, C. B. Isakson ly feeding machine, H. S. Gordon | 767,892 767,936 |
| e, torpedo, P. R. Roberts py, M. J. Dwyer | 767,440 767,51:3 |
| coupling, G. H. Schaffer door, freight, E. T. Hanson | 767,770 767,404 |
| dump, S. Otis fender. W. E. Zachry | 767,657 767,538 |
| heating system attachment. E. H. Gold lubricating side bearing. G. Galleway. | 768,020 |
| railway, F. S. Ingeldsby | 767,693 |
| unleading device, W. F. Traves | 768,006 |
| J. G. Barry | 767,623 |
| Schroyer | 767,802 |
| Murphy | 767,419 |
| nreter, F. C. Merrege | 767,485 767,716 |
| ling machine stop mechanism, J. W. Scott | 767,965 |
| et renovator, M. H. Collom ier bar, adjustable, A. E. Brown | 767,630 767,861 |
| ier knocker, traveling, D . M. Mother- well | 767,652 |
| on, etc., setting up machine, W. S. Scales | 767,445 |
| ons, etc., machine for setting up and filling. W. H. Doble | 767,395 |
| ridge, C. Kurth or satchel. E. A. Lamphier | 767,57() 767,898 |
| J. G. Barry Juncture action device let, J. G. Barry vestibule, etc., diaphragm, Donaldsen & Schroyer onator controller, automatic, E. E. Murphy Protect for the second s | 767,646 |
| 767,943, ulase production of amerubous I | 767,944 |
| 767,943, nlese, production of amorphous, I. King apparatus, sales, R. B. Stanley ek, lathe, C. W. Barnaby e, ceal, F. J. Underwood r wrapper cutter and relling table, com- bined J. B. Williams | 767,822 767,719 |
| ek, lathe, C. W. Barnaby | 767,678 |
| r wrapper cutter and rolling table, com- | 767 690 |
| rette making device, A. E. Buckingham | 767,626 |
| h cutter, G. P. Eastman | 767,605 |
| hes pin, H. S. Broughton | 767,792 |
| Smith hes pin sletting machine, A. Smith | 767,448 767,447 |
| ic, ceal, F. J. Underwood it wrapper cutter and reling table, com- fined, J. R. Williams rette making device, A. E. Buckingham k, musical alarm, A. Stange hespin, H. S. Broughton hespin, H. S. Broughton hespin blank forming machine, A. Smith ch, friction, W. A. Smith ch, friction, W. A. Smith ch, friction, W. A. Smith e pot, R. L. Vansant re pot percelating and circulating at- ring matter and producing same, G. J. Kaufmann bustion regulating means, J. M. W. Kitchen rete construction binder, H. L. Lewman lenser, C. Caille | 767,844 767,848 |
| ee drier, E. Penagos ee pot, R. L. Vansant | 767,594 767,778 |
| ee pot percolating and circulating at- tachment, C. B. Pike | 767,595 |
| ring matter and producing same, G. J. Kaufmann | 767,894 |
| bustion regulating means, J. M. W. Kitchen | 767,569 |
| rete construction binder, H. L. Lewman lenser, C. Caille | 767,582 767,384 |
| ecting red. C. M. Spalding | 767.772 |
| eyer, portable, W. L. McCabe | 767,824 767,622 |
| holder, A. R. Dearborn | 767,873 767,409 |
| elements, producing, R. G. James busker, R. N. Thomas | 767,410 767,918 |
| shock compressors, cord carrying mechanism for J. W. Webster | 767 457 |
| et triple tongue attachment, J. G. | 767 446 |
| et, M. L. Large | 767,572 |
| et attachment, M. H. Gerstle | 767,881 |
| for, W. J. Hall | 767,750 767,611 |
| es, automatic brake and safety device | 767 817 |
| ivator, G. M. Wright | 767,467 |
| Harrington | 767,405 |
| ain fixture, W. S. Miller | 767,909 |
| older collector and carrier, J. P. John- son, reissue | 12,258 |
| es er ether mechanism, driving gear for, | 101,619 |
| | |
| nder reducer, J. N. Paulson. 767,526, | 767,800 767,527 |
| al appliance, J. N. Paulson 767,526, al appliance, J. D. Ford al engine attachment, I. Lyman | 767,800 767,527 767,743 767,705 |
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| | | Block composition, A. W. Perkins | R. Whitney |
|---|--|---|---|
| for a band-saw, formerly filed by Mr. Sey- | | Block making machine, hollow, W. R. Cun- | Electric recorder, F. S. Osborn |
| mour. | ing, screw machine work, hardware specialties, machin- | ningham | Electric switch, Hopewell & Morse 767,889 |
| | ery and tools. Quadriga Manufacturing Company, 18 | Block mold, J. C. Miller 767,418 | Electrical distribution system, J. Hallberg, 767,477 |
| | South Canal Street, Chicago. | Block signal, C. H. Morse 767,952 | Electrical-fixture base, L. Steinberger 767.846 |
| Prime Movers and Their Accessories | | Bobbin for twisting and drying yarns, G. | Electrical regulator, automatic, E. Levison, 767,703 |
| Frime Movers and Ineur Accessories | induity no. 00100 - of makers of faunting ma- | Poure | Electrically operated apparatus, Sedgwick & |
| WINDMILLJ. J. MCLEAN, MOOSE Jaw, | chinery. | Beiler end plate, G. Y. Bonus 768,011 | Abbett 767,599 |
| Canada. In this patent the invention has for | Inquiry No. 5911For makers of gage rods, | Boiler flue cleaner, P. F. Vogt 767.854 | Electricity met prepayment mechanism, |
| | bydrometer jars, etc. | Bolt actuator, W. F. Gilbert 767,400 | |
| its object to render the construction of wind- | Inquiry No. 5912For makers of carpet-clean- | | Electrolytic apparatus, W. J. Schweitzer 767,964 |
| mills more simple, durable, economic, and | ing machinery. | Book, manifelding sales, P. L. Cozzens 767,927 Bottle, W. Johnston | |
| effective than ordinarily and to provide a | | Bottle, w. Johnston 101,813 Bottle, non refillable, E. M. Ussery 767,455 | S. Stone |
| · · · · | Inquiry No. 5913For machines for making old | Bottle, non refillable, A. W. Swanberg 767,53 | Electromegnetic meyes increasing the effect |
| means whereby when the windmill is not in | carpets into rugs. | Bottle stopper, E. D. Conklin 767,632 | tive radiation of, J. S. Stone |
| use the wind-wheel will be housed and perfectly | Inquiry No. 5914For machinery for making | Bottle stopper, E. J. Deegan | Elevator apparatus, J. B. Honor |
| | apple jelly, etc. | | Elevator gate, F. A. Swenson 767,850 |
| protected and whereby more of 1000 while may | | Box, F. S. Foote 767,87! | Elevator safety appliance and speed controll- |
| be directed to the wheel as occasion may | Inquiry No. 5915For makers of power lace machines. | Box fastener, F. M. Holmes 767.482 | ing apparatus, 'f. Eskilsson |
| require. Means are provided, acting always | machines. | Box fastening, W. H. Davis 767,547 | Engine crank disk and pin, steam, W. R. |
| to know the blades perfectly facing the wind | Inquiry No. 5916For makers of machine for | Braiding machine, J. D. Bishop 767,376 | Fleming |
| | making copra, or for taking meat from the cocoanut. | Brazing furnace, hydrocarbon, C. F. Warner 767,509 | Enigine cylinders and pistons, cooling means |
| which blades are a fixture in the construction | Inquiry No. 5917For manufacturers of wood- | Brick kiln, J. Eleock 767,637 | for gas, N. E. Egge |
| of the wind-wheel. | carving machinery. | Bricks, cleaning, F. D. Le Blanc 767,575 | Engines, fuel supply means for explosive, |
| | | Briquet machine, J. J. Crawierd 767,544 | A. A. Low |
| FUSIBLE-PLUG VALVEJ. L. DOWNS, | Inquiry No. 5918For makers of flywheels for engines of 20 to 50 h. p. | Bromid enlargment making device, T. J. Lande | Engraving machine, R. E. Gray |
| North Bergen, N. J. Mr. Downs' purpose is | engines of 20 to 30 h. p. | | Envelop, H. Smith 107,419 Excavating apparatus, C. W. Rood |
| to provide a means whereby in the event the | | Brush and dentrifice receptacle, combined | Excavating apparatus, C. W. Mouthand 101,105 Excavator, G. H. Williams |
| | combs, hooks and eyes, etc. | | Eyeglass frame, I. Fox |
| water in a boiler should become so low that | Inquiry No. 5920For makers of furnaces for | Buggy boot, J. W. Covert | Eyeglasses, J. W. J. Wells |
| the heat from the fire-box melts the fusible | smelting lead, tin and Babbitt dress. | Buggy seat brace, T. D. Clendining 767.390 | Fan, blast, D. F. Lenley |