

(29) M. T. S. says: I am making a machine of cast iron for cutting fruits and vegetables. What paint or varnish should I put on it to keep it from rusting? A. Paints or varnishes will not answer for this purpose. It is best to have the iron nickel or silver plated. See p. 232, vol. 36. "Prevention of Rust on Iron."

(30) G. C. Q. asks: 1. What volume of water in the state of vapor can be absorbed by a given volume of sulphuric acid before the acid becomes completely saturated? A. Strong oil of vitriol will absorb more than twice its volume of water vapor; but as the dilution proceeds, the absorbing power of the acid decreases proportionately. 2. What is the most simple method by which the acid can be rid of the water it has absorbed, so that it is ready to absorb again? A. The only way is by evaporation with the aid of heat in glass, porcelain, or platinum vessels.

(31) G. E. asks: How can I mix paint that will do for painting steam pipes or the parts of an engine which are heated by steam? If I use water color it rubs off; if oil, it turns dark from the heat? A. If you do not wish to use a dark color, mix your paint to a lighter shade than it is permanently to be, and let the heat deepen to the color till it sets.

(32) J. V. B. says, in reply to D. D., who asks what is the cheapest and best preparation for the preservation of shingles: Use 3 lbs. of green vitriol in water to the 1,000 shingles. This preserves the shingles and renders them to a great extent fireproof. Shingles made from wood of evergreen trees are best.

(33) R. B. R. asks: Is there any instrument in which, as in a reservoir, electricity could be stored up, so as to be used occasionally as need might require to produce motion? If I should employ a windmill to generate electricity by a Gramme machine, could I store up the electricity until it acquired a certain and sufficient tension, and then draw from it as I choose, without the necessity of using plates, porous cells, carbons, etc., and without danger? A. No. A battery composed of Leyden jars may be charged with statical electricity, but the quantity of electricity that can be so stored is limited, and it is difficult to retain the charge for any length of time. Low tension electricity, such as is used on telegraph lines, cannot be stored.

(34) J. F. D. says: Some time ago I made a voltaic pile, which I cannot get to work. I put circular blanks, 4 inches in diameter, thus: Copper, zinc, fabric, copper, zinc, fabric, etc., punched holes in center of them, and piled them up around a stick. Please tell me what is necessary to make it work? A. Remove the stick and moisten the pieces of cloth. The shape of the disks does not in any way influence the strength of current. Make the cloth the same size as the disks with which it is in contact. It will require several hundred of the couples to produce a sensible spark.

(35) A. B. asks: How can get I rid of lice in poultry? A. Make the roosts perfectly clean with hot soap and water, and afterwards apply spirits of turpentine or kerosene oil. Also strew some sprigs and branches over the floor of the coop. The building should be kept clean.

(36) S. R. S. says: Having read that an engine has been disabled by putting a bar of soap in the tank, I wish to know what the action of the soap in the boiler was? Did it cause foaming? A. Yes.

How can I take grease spots out of fine felt cloth without injuring the cloth? A. Moisten the spotted parts thoroughly with pure benzole, and immediately cover them on both sides of the cloth with dry pipeclay or tripoli powder. Then place under a weight for some time, and the spots will disappear.

(37) H. E. L. asks: Is there anything that will remove Indian ink stains from drawing paper? A. There is nothing that we know of, except a good steel eraser or sanded rubber. Indian ink contains finely divided carbon, which is unaffected by any ordinary solvent.

(38) J. A. H. asks: What size of wire and how much in length shall I use for magnets for the electro-magnetic engine described in SCIENTIFIC AMERICAN SUPPLEMENT No. 19, to give the most power with a single Calland cell? If I use 2 cells, how shall I connect them? What is the rule for estimating the resistance of batteries and of magnets and other wire connections, in order to proportion one to the other? Mr. Sawyer says, in describing the engine above referred to: "No. 31 wire is the best size for magnets;" you say, in answer to a subsequent inquiry on the same subject, "use No. 18 wire." Can you explain this? A. With a given battery the greatest magnetic effect is obtained when the resistances of the battery and magnetizing helix are equal. The average resistance of a medium size Calland cell in good condition is about 1.5 ohms, consequently the resistance of the helix should be the same according to the above statement, and this is equivalent to about 350 feet of No. 18 or 90 feet of No. 23 pure copper wire. With a Grove cell, large wire and fewer convolutions would be best.

(39) H. I. & Co. ask: Does the putting of concentrated lye in boilers, to soften the scale, injure the iron? A. The lye will have little effect on the iron, but may cause the water to foam.

(40) C. R. asks: How can the lambskin aprons used by freemasons be cleaned? I used benzine; it frees them of dirt, but makes them look dingy and yellow. A. Have you tried soap and water? It is not probable that the benzine would leave a stain on the wool if used in excess. Bisulphide of carbon is among the best solvents for oil and grease, and will perhaps give better results than the benzine. Try also wood naphtha. If too little of the solvent is used, it will only carry the stain from the surface further into the material. It should be observed that all of these oil solvents tend to destroy the pliability of the leather and necessitate its re-priming or oiling after drying.

MINERALS, ETC.—Specimens have been received from the following correspondents, and examined, with the result stated:

D. M. B.—It is a coarse sand formed by the disintegration of granite. If you look at it with a strong magni-

fying glass, or low power microscope, you will find it composed of films of mica, orthoclase, and quartz crystals. It contains some iron oxide and pyrites.—N. B. B.—They appear to be all carbonate of lime crystals—calcite. The varieties of calcite are very numerous and diverse in their diaphaneity, crystalline structure, and color, the variation being due to the different modes of origin and impurities.—W. R. L.—It is graphite or plumbago, mixed with clay.—E. D. R.—We have not been able to classify the shells, as they were very much broken and imperfect.—M. M. B.—It is a hematitic iron ore, containing crystals of iron pyrites. See p. 7, vol. 36. It is of little value.—A. Bros.—It is graphite, an allotropic form of carbon, sometimes called plumbago and black lead. It is found associated with sphene, tabular spar in granular limestones, with pyroxene, spinel, chromolite, hornblende, scapolite, syenite, and gneiss, and in some iron ores. It is used for lead pencils, in black-lead crucibles, and as a substitute for oil in lubricating machinery; and it constitutes what is known as stove blacking. It is found in many parts of the United States, and is mined at Ticonderoga and Fishkill, N. Y., at Brandon, Vt., and in North Carolina. Its market price is from 3 to 6½ cents per lb.

COMMUNICATIONS RECEIVED.

The Editor of the SCIENTIFIC AMERICAN acknowledges, with much pleasure, the receipt of original papers and contributions upon the following subjects:

- On Flying Machines. By D. J. C.
On Fire Escapes. By J. M. C.
On Interference Colors. By H. M.
On Compressed Air. By F. G. W.
On a Snake-Eating Frog. By C. F. S.
On a Needed Invention. By J. E. E.
On Microscopy. By P. T.
On the Flight of Birds. By J. H. H.
On Cutting Gears. By M. J. S.

HINTS TO CORRESPONDENTS.

Correspondents whose inquiries fail to appear should repeat them. If not then published, they may conclude that, for good reasons, the Editor declines them. The address of the writer should always be given.

Inquiries relating to patents, or to the patentability of inventions, assignments, etc., will not be published here. All such questions, when initials only are given, are thrown into the waste basket, as it would fill half of our paper to print them all; but we generally take pleasure in answering briefly by mail, if the writer's address is given.

Hundreds of inquiries analogous to the following are sent: "Who sells hydraulic rams, and where can circulars descriptive of them be obtained? Who makes steel wire, suitable for spiral springs, to be wound cold? Who sells sal soda and soda ash? Who buys bones, and what are they worth? Who sells machines for setting pins in rubber cloth, for making metallic hair brushes?" All such personal inquiries are printed, as will be observed, in the column of "Business and Personal," which is specially set apart for that purpose, subject to the charge mentioned at the head of that column. Almost any desired information can in this way be expeditiously obtained.

OFFICIAL.

INDEX OF INVENTIONS FOR WHICH Letters Patent of the United States were Granted in the Week Ending April 24, 1877, AND EACH BEARING THAT DATE. [Those marked (r) are reissued patents.]

A complete copy of any patent in the annexed list, including both the specifications and drawings, will be furnished from this office for one dollar. In ordering, please state the number and date of the patent desired, and remit to Munn & Co., 37 Park Row, New York city.

Table listing inventions with names and dates, such as Air, cooling, etc., M. J. Kelly (r) 7,643; Ale and beer, cooling, Moloney & Schuyler 189,948; Anvil, cast iron, C. Fisher 189,892; Awl, G. P. Harley 189,934; Bale tie, J. M. Pollard 190,076; Barrel hoop, wooden, McEachern & Burrell 189,859; Barrels, making, R. M. Munroe 190,063; Bed bottom, J. J. Lucas 189,943; Bedsteads, W. J. Myers 190,064; Bee hive, J. Coates 189,923; Beer forcing apparatus, J. S. Von Nieda 190,103; Belt fastener, J. Bachmann 189,988; Bleaching cotton seed oil, etc., J. Macdonald 189,867; Blind sash adjuster, J. G. Broemser 189,995; Boat, folding, J. H. Bates 189,913; Boat draw coupling, etc., S. M. Fulton 189,854; Boiler heads, flanging, Miller & Bolen 189,870; Boiler setting, K. M. Jarvis 189,862; Boots, nailing machine, L. R. Blake 189,835, 189,836, 189,837; Boots, nailing machine, H. P. Fairfield 189,850, 189,851; Boot uppers, crimping, E. Corbett 189,945; Boot making, nailed, L. R. Blake 189,834; Bottle stopper, C. Sedgwick 189,906; Box scraper, J. P. Tierney 188,967; Bracket, E. H. Bates 189,833; Breech loading fire arm, H. Updegraff 189,973; Brick kiln, E. R. McDougal 190,060; Broom heads, making, D. Squier 190,095; Butter worker, D. A. Frick 190,024; Cake cutter, H. Erzinger 190,018; Calendar, A. C. Adams 189,832; Calico printing blanket, C. McBurney 189,868; Car brake and starter, W. Marean 190,056; Car coupling, R. A. Kelly (r) 7,629; Car heater, L. Capron 190,002; Car spring, A. Middleton 190,061; Car starter, J. S. Van Pelt, Jr. 190,101; Car, steam street, J. D. Imboden 190,046; Car, etc., steam plowing, S. T. Shankland 189,961; Card holder, Herbert & Wilbur 189,936; Carriage base former, Salisbury & Hunt 190,080; Casting mouldboards, chill for, J. Oliver 189,874; Chain, ornamental, H. Wexel 190,105; Chair, folding, Stevens & Wallace 189,964; Chair, oscillating, H. Geise 189,933; Chair, step ladder, H. Goffette 190,027;

Table listing inventions with names and dates, such as Check rower, and dropper, S. H. Worth 190,110; Chronometric governor, E. H. Randall 190,077; Chuck, A. Hurd 190,043; Chuck, Siler & Brooks 190,080; Churn, G. W. Crosby 190,010; Churn dasher, J. H. Starnes 189,880; Cigar lighter, Seiden & Keep 189,879; Clock, electric, C. E. Brush 189,998; Coal cabinet, G. Rosenqvist 190,079; Coil spring band, F. Armstrong 189,986; Coin drawer, J. A. Read 189,956; Coin holder, H. G. Huested 189,939; Cooling liquids, H. B. Scharmann 190,082; Copy book, J. W. Manning 189,944; Corn planter, R. Fox 189,932; Corn planter, F. W. Shellabarger 190,087; Corn stalk press, Davis & Fisk 189,925; Corset, M. M. Harriman 190,032; Cotton, opening, etc., Whitehead & Atherton 190,107; Crozing and howling, J. A. Seaman 189,878; Culinary boiler, I. A. Robinson 189,877; Cultivator, J. M. Long 189,896; Curtain tassel, S. H. La Rue 190,051; Cutter head, O. Lindblad 189,865; Desk, washstand, etc., A. O. Kirkwood 189,942; Ditching and draining, A. Swift 190,096; Doll, talking, W. A. Harwood 189,935; Door check, J. B. Everest 189,927; Drilling, holding work for, A. Hurd 190,042; Drilling mechanism, O. S. Hosmer 189,895; Electric alarm indicator, A. Bradford 189,993; Electric machine, magneto, C. F. Brush 189,997; Electric railway signal, H. Brunius 189,999; Elevator, W. W. Blakeslee 189,914; Elevators, indicator for, T. S. Young 150,111; Engine, rotary, N. Nilson 190,067; Fare box, J. D. Pierce 190,075; Faucet, H. B. Leach 190,063; Faucet, L. A. Rebasz 189,904; Faucet, draft, M. Hogan 189,860; Faucet, drip cup for, F. Brigham 189,839; Feed water heater for boilers, A. T. Denison 189,847; Fence, barbed, G. H. Hunt 189,861; Fence, barbed wire, A. E. Bronson 189,994; Fence, barbed wire, C. W. & W. Scarlett 190,081; Fence post, metallic, J. Brinkerhoff 189,918; Fence rails, making barbed, L. M. Woodcock 189,982; Filter rack, B. Fenner 189,929; Fire escape, C. Dwight 190,015; Fire escape, O. Sherwood, Jr. 190,085; Fire extinguisher, A. S. Austin 189,987; Fire extinguisher, C. F. Girard 190,026; Fire kindler, T. Park 189,901; Flour, reducing cereals to, V. Ryerson 189,959; Food steamer, A. Johnson 189,863; Frame corner, J. E. Goodrich 190,028; Fruit dryer, S. Myers 189,952; Fuel composition, C. M. Adams 189,985; Fumigator, G. T. Blanchard 189,915; Gas burner, F. D. Bliss 189,916; Gas heater, C. H. Prentiss (r) 7,636; Gas machine, F. W. Ofelt 189,873; Gas making, W. H. Tupper 189,971; Gas retort chargers, filling, T. F. Rowland (r) 7,631; Gate swinging, H. B. Freeman 190,022; Grain binder, H. Hull 190,041; Grain binder, H. L. McCormick (r) 7,642; Grain separator, T. J. Hubble 189,938; Grain separator, G. B. Turner 189,884; Grinding machine, T. R. Stewart 189,965; Gun stook, adjustable, H. Hartley 189,033; Harness saddle tree, J. McCormick 189,946; Harrow, J. J. Vinton 190,102; Harrow, cultivating, R. Hamilton 190,031; Harvester reel, J. J. Dewey 190,013; Hay for fuel, twisting, J. S. Foster (r) 7,639; Hinge, D. W. Long 189,866; Hinge for carriage doors, etc., C. W. Butler 189,920; Horse rake, revolving, L. Bissell 189,992; Horses to vehicles, attaching, H. E. Chadwick 189,842; Horseshoe nails, making, R. M. Cummings 190,011; Hose coupling, W. B. Kilbourne 189,941; Hose coupling, W. A. Rideout 189,905; Hose reel, automatic, H. C. De Witt 190,014; Hot air regulator, A. C. Norcross (r) 7,638; Hub attaching device, Lathrop & Allen 190,052; Hydraulic engine, W. H. Clark 190,005; Ice boat steam, J. & J. Arno, Jr. 189,910; Ice creeper, A. T. Moore 189,949; Ice machine, D. L. Holden 190,036; Ironing table, D. Choate 189,843; Journal box, B. F. Sturtevant 189,881; Knife and floor cleaner, A. E. Van Horn 189,974; Lamp, G. Chappell 190,004; Lamp, Holloway & Steineman 190,037; Lamp, J. Kirby, Jr. 190,050; Lamp, L. H. Olmsted 190,089; Lamp burner, G. H. Chinnock (r) 7,634; Lamp chimney, W. H. Mason 189,945; Lamp fixture, extension, J. A. Evarts (r) 7,628; Lamp, student, J. Kirby, Jr. 190,049; Lamp, vacuum, H. Wellington 190,104; Lantern, pocket, G. E. Parker 190,073; Lathes, center and carrier for, C. A. Niebell 189,953; Leather for ornamentation, H. Huck 190,040; Lifting jack, F. Griscom 189,856; Lock, combination, Pillard & McPherson 189,902; Lock, combination, P. Shellenback 190,088; Locks, key guide for, L. Hillebrand 190,035; Loom shuttle box mechanism, F. Christen 189,922; Lubricator for steam engines, W. R. Petrie 189,875; Magazine fire arms, lock for, G. F. Evans 189,848; Magazine gun, W. R. Evans (r) 7,635; Measuring coal, etc., T. F. Rowland (r) 7,630; Meat chopper, M. L. Edwards 190,017; Mechanical movement, N. Nilson 190,066; Millbush, R. T. Jennings, Sr. 190,048; Mower, E. L. Gilman 190,025; Musical instruction device, R. S. Hill (r) 7,640; Neck band, N. W. Caughy 190,003; Neck tie retainer, W. T. Buckner 190,001; Nut lock, J. C. Wright 189,984; Ore feeder for stamps, M. P. Boss 189,917; Ore sluice and concentrator, G. R. Evans 189,928; Ore washer, H. E. Taylor 189,882; Oven rack, J. F. Houghton 189,937; Oyster opening machine, T. W. Temple 189,966; Packing, making asbestos, H. W. Guest 189,893; Pantalooms, S. L. & L. M. Thompson 189,883; Paper bag machine, R. H. Thayer 190,097; Paper box, E. Morgan 189,898; Paper box, E. Morgan 189,899; Paper cutting machine, E. R. & T. W. Sheridan 190,089; Parquetry, making, Newhouse & Allen 190,021; Passenger register, Fowler et al. 190,021; Peg boat or cutter, Maris & Hart 190,057; Pencil, O. M. Allen 189,886; Photographs, enameling, M. R. Freeman 190,023; Picture exhibitor, O. Williamson 189,990; Picture frame, F. Odenbaugh 190,068; Piles, drawing broken, Sheldon & Graves 189,962; Plow, C. Atkinson 189,912; Plow, W. L. Edwards 180,016;

Table listing inventions with names and dates, such as Plow, J. A. Olson 190,070; Plow, Wiard & Hough 189,885; Plow, J. F. & R. I. Wilson 189,981; Plow stock, N. J. Skaggs 190,092; Pneumatic signal, A. N. Towne 189,960; Post office box, J. H. Beidler (r) 7,623; Post office box, W. H. Bramble (r) 7,624; Post office box, S. N. Brooks (r) 7,625; Potato digger, L. A. Aspinwall 189,911; Propeller, steering, Uller & Bennett 189,972; Pruning implement, J. Chase 189,921; Pulverizing mills, roll for, E. S. Blake 189,887; Pump, M. Cook 189,924; Pump, J. C. Wright 189,983; Pump, compound steam, J. L. Loretz (r) 7,641; Pumping apparatus, W. F. Plockross 189,955; Rails, reducing old, Hill et al 189,894; Rails, etc., detecting, A. Herring 189,858; Railway switch, J. J. Golden 189,855; Range, Brownback & Towers 189,919; Range, nursery cooking, L. Tobey 189,968; Rattan, sawing, E. F. Woodbury 190,109; Rattan machines, measuring, N. H. Richardson 189,957; Refrigerator, J. J. Bate 189,990; Refrigerator building, C. L. Riker 180,858; Retort exhauster, P. Munzinger 189,900; Sash fastener, C. W. Penfield 190,074; Sash holder, Jones & Stroud 189,940; Saw, W. P. Miller 190,062; Saw filer and setter, T. L. Shaw (r) 7,632; Saw handles, attaching, C. A. Sands 189,900; Scales, platform, J. J. Verckler 189,976; Scales, sack, C. Flanders 189,852; Screw cutting die, S. W. Martin 190,059; Screw tap, expanding, J. R. Douglas 189,889; Sewer gas trap, B. P. Bower 189,888; Sewing machine, J. L. Follett 189,931; Sewing machine, F. Jacob 190,047; Sewing machine, W. F. Thomas 190,098; Sewing machine clutch, F. A. Barr 189,989; Shaping metal articles, G. F. Evans 189,849; Sheet metal can, F. C. Fleming 189,891; Sheet metal can, L. V. Sone 190,094; Shovel and tongs, G. W. Whelan 189,978; Shovel blanks, making, A. Maltby 190,055; Show cards, etc., mounting, W. J. Quarry 189,903; Slasher, Briggs et al 189,888; Slate, C. M. Brombacher 189,966; Spark arrester, W. T. Urie 190,100; Speed and current indicator, D. Iffland 190,045; Spinning frame, W. F. Draper 189,890; Spool show box, R. Trautmann 190,089; Station indicator, J. Ort 190,072; Steam boiler, P. Fitzgibbons 189,930; Steam boiler, C. D. Smith 190,093; Steam boiler feeder, D. Iffland 190,044; Steam heating, C. & J. L. Bosquet 190,054; Step ladder, O. Sherwood, Jr. 190,086; Stereoscope, J. Ardito (r) 7,622; Stove, cooking, N. A. Boynton (r) 7,637; Stove leg caster, A. Mey 189,897; Stove, oil burning, J. H. Shaut 190,084; Stove pipe damper, N. C. Whitcomb 190,106; Stoves, etc., grate for, R. Simpson 190,091; Table, extension, G. Hess 190,034; Table forks, etc., making, L. S. White (r) 7,633; Telegraph, printing, P. A. J. Dujardin (r) 7,627; Telescope, A. Moser 189,950; Ticket reel, W. W. Bierce 189,991; Timber, dressing, W. H. Knight 189,964; Tobacco, marking plug, G. S. Myers 189,951; Tooth brush, S. Stevens 189,963; Toy, arithmetical, L. Wieser 189,979; Toy money box, J. Hall 189,887; Toy money box, F. W. Smith 189,907; Treadle movement, N. Du Brul 189,926; Tripod for rock drills, T. B. Ford 189,853; Truck, hand, H. R. Ferris 190,020; Tumbling barrel, J. C. Coonley 190,089; Turbine water wheel, J. Hough 190,038; Tuyere, C. A. Wolf 190,108; Umbrella, A. E. Cohn 190,006; Umbrella runner, J. J. Higgins 189,859; Valve for air brakes, A. F. Gue 190,030; Valve gear, T. Scheffler 190,083; Vegetable slicer, J. H. Alfred 189,909; Vehicle platform spring, Milks & Watson 189,871; Wagon, dumping, L. Rodenhausen 190,078; Wagon loader, J. J. Verckler 189,975; Wagon spring, J. D. Brunner 190,000; Wagon, steam road, G. W. Wade 189,977; Wagon top, H. W. Calderwood 189,840; Wash board, J. Poole 189,876; Wash boiler, H. Gotthardt 190,029; Wash bowl, W. H. Cloke 189,844; Washing machine, H. Carpenter 189,841; Watchman's time detector, J. H. Marvil 190,058; Water closet, W. S. Carr (r) 7,626; Water closet service box, R. Mitchell 189,947; Water closet valve, R. J. Thomas 189,903; Water wheel, L. A. Uria 190,012; Water wheel, T. Tripp 189,970; Weather strip, G. Howver 190,039; Whiffletree hook and clips, J. C. Coonley 190,007, 190,008; Whiffletree hook and clip, Ewart & Coonley 190,019; Whip, G. P. Overin 189,954; Wire stretcher, Davenport & Hicks 189,846; Zinc, preparing sheet, A. O'Neill 190,071;

DESIGNS PATENTED.

Table listing patented designs with names and dates, such as 9,900, 9,901.—CASSIMERES.—W. B. Weedon, Providence, R. I.; 9,902.—CORSET CLASP EYE.—M. Adler, New Haven, Conn.; 9,903.—CARPETS.—A. Baye, London, England.; 9,904.—CHAIRS.—P. Diehl, New York city.; 9,905, 9,906.—BUTTON CARDS.—J. Fenton, Birmingham, England.; 9,907 to 9,913.—OIL CLOTH.—C. T. Meyer et al., Bergen, N. J.; 9,914.—ORGAN CASES.—J. R. Lomas, New Haven, Conn.; 9,915.—GLASSWARE.—J. B. Lyon, Pittsburgh, Pa.; 9,916.—BOTTLE.—E. Raynaud, Paris, France.; 9,917.—BAS RELIEF.—G. Beck, Highland, N. Y.; 9,918.—BADGE.—J. McCoy, Ypsilanti, Mich.; 9,919.—DRESS FRINGE.—M. Blau, New York city.; 9,920, 9,921.—CARPETS.—E. Daniel, Paris, France.; 9,922 to 9,931.—CARPETING.—J. L. Folsom, Brooklyn, N.Y.; 9,932 to 9,935.—CARPETING.—O. Heinigke, New Utrecht, N. Y.; 9,936 to 9,940.—CARPETING.—H. Horan, East Orange, N.J.; 9,941.—LOCKET.—F. Keller et al., New York city.; 9,942, 9,943.—CARPETING.—G. W. Piggott, New York city.; 9,944 to 9,946.—CARPETING.—J. E. Rollings, N. Y. city.; 9,947.—TOWEL BORDERING, ETC.—R. T. Webb, Randallstown, Ireland.; 9,948.—POCKET BOOK FASTENERS.—L. Prahar, N. Y. city.;

[A copy of any of the above patents may be had by remitting one dollar to MUNN & Co., 37 Park Row, New York city.]