RECENTLY PATENTED INVENTIONS.

Agricultural Implements.

COTTON-CHOPPER.—A. D. EZZELL, Clinton, N. C. By a novel construction the machine first mashes down the portion of the row it is desired to chop and then cuts the mashed portions down. A harrow is provided at the rear of the chopper to harrow the cotton after it is chopped.

GANG-PLOW.—H. BRYAN, Modesto, Cal. The problem in gang plows has been to provide a draft attachment which could be securely locked in any adjustment and yet possess due strength and durability without too great weight of parts. Mr. Bryan's new plow is especially designed to meet this problem. The attachments are few in number and of inconsiderable weight, while the adjustment may be made with facility and the lock is perfectly secure.

GRAIN OR SEED SEPARATING DEVICE.—J. E. HILL and W. W. BROWER, Meservey, Iowa. The separating device is so constructed that a separating cylinder is employed in connection with spring risers secured to a vibrating or agitating grain table, the cylinder being of such character that it will not clog and will cause the straw to move freely to the rear end of the machine, while through the combined action of the cylinder and risers the grain is quickly and effectually shaken from the straw.

Miscellaneous Inventions.

GAS LIGHTER.—R. E. JÄHNIG, New York, N. Y. The gas lighter proper consists of a number of wires which are twisted together at one end and secured to a socket, the outer ends being laid in the notches of a comb-shaped cross member. At the inner end the wires carry a body of finely divided platinum. An apertured hood protects the wires. When the gas is turned on the finely divided platinum absorbs the gas so energetically as to become itself incandescent, thus igniting the gas.

APPARATUS FOR PRESERVING FRUITS OR VEGETABLES.—KATHRYN M. KEISER, Walshville, Ill. The improved apparatus provides for the reception of closed vessels adapted to contain fruits or vegetables. These vessels are exposed to the heating action of steam which is supplied from a steam tank in a manner to minimize loss or waste. The escaping steam is retained in a condenser and returns to the tank.

SETTING INSTRUMENT.—M. CHAMBERLAIN, Bartley, N. J. The object of the invention is to provide a means for setting the cutting edge of a square-nosed tool level in a planer or like machine, to insure accurate cutting of a key seat, and to allow of setting the instrument quickly for cutting the seat to any desired width.

MANUFACTURE OF HANDLED GLASSWARE.—H. BASTOW, Steubenville, Ohio. The invention provides means for casting handles directly upon the bowl or body of the glassware to insure homogeneity between the body and the handle. The body and handle are molded from the same mass, the handle being integral with the body at opposite points thereof and extending approximately parallel with the upper edge. The glassware is then reheated and the handle bent to extend transversely to the body in a vertical plane.

HOISTING GEAR.—F. V. NIELSEN, San Francisco, Cal. By using this gear the cargo can be readily lifted from the hatch and delivered clear of the ship's side. In many large vessels the distance from the mast to the center of the hatch is considerably less than the distance to the ship's side, so a guide for the lifting-rope, which will direct such rope to the center of the hatch, will not direct the rope to the side of the ship to deliver the cargo from the hatch. This invention provides guide devices to the lift-rope whereby the same may be adjusted relatively to the mast, so that it will operate centrally over the hatch and will also clear the ship's side.

PIPE-CLEANER.—J. L. STEITZ, Chicago, Ill. The cleaner is designed to thoroughly cleanse the pipe or draft-tube after a barrel or keg is empty, to keep the pipe as sweet as possible. A self-closing supply valve, which is connected with the supply of cleansing liquid under pressure, is arranged to receive the tapping-tube which, when forced downward, opens the valve and permits the cleansing liquid to flow through the tapping-tube and the parts connected therewith.

PLUMBING AND TANNING PROCESS.—S. SAXE, New York, N. Y. The process consists in subjecting the hides first to weak and then to progressively stronger solutions, containing both a commercial tanning extract and an extract of natural bark, and also containing a commercial lactic acid.

COMPOSITION OF MATTER.—F. JONES and C. L. PENNELL, Massillon, Ohio. These inventors have invented a composition which consisted preferably of 25 per cent of peat or vegetable soil, 50 per cent of clay, 20 per cent of straw, 1 per cent of tar, 1 per cent of soda ash, and 3 per cent of lime. This mixture is applied to a core bar and dried in an oven, when it may be used as a core for casting pipes and other tubular articles.

NOTE.—Copies of any of these patents will be furnished by Munn & Co. for ten cents each. Please state the name of the patentee, title of the invention, and date of this paper.

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READ THIS COLUMN CAREFULLY.—You will find inquiries for certain classes of articles numbered in consecutive order. If you manufacture these goods write us at once and we will send you the name and address of the party desiring the information. **In every case it is necessary to give the number of the inquiry.**

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Marine Iron Works. Chicago. Catalogue free.

Inquiry No. 2397.—For manufacturers of metal and leather card cases.

For mining engines. J. S. Mundy, Newark, N. J.

Inquiry No. 2398.—Wanted, addresses of firms manufacturing clothes pegs and pins.

Motor Vehicles. Duryea Power Co., Reading, Pa.

Inquiry No. 2399.—For parties to make a lead pencil attachment 1 inch long with rough outside surface.

"U. S." Metal Polish. Indianapolis. Samples free.

Inquiry No. 2400.—For manufacturers of porcelain tubes for gas engine spark plugs.

WATER WHEELS. Alcott & Co., Mt. Holly, N. J.

Inquiry No. 2401.—For dealers in electric and combination fixtures.

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

Inquiry No. 2402.—For dealers in house wiring supplies.

WANTED.—Sole agency, Pacific coast, good article. Have capital. Box 856, Fresno, Cal.

Inquiry No. 2403.—For manufacturers of small motors (gasoline preferred) suitable for invalids' automobiles.

Sawmill machinery and outfits manufactured by the Lane Mfg. Co., Box 13, Montpelier, Vt.

Inquiry No. 2404.—For parties to manufacture a special envelope.

Rigs that Run. Hydrocarbon system. Write St. Louis Motor Carriage Co., St. Louis, Mo.

Inquiry No. 2405.—For dealers in envelope dies.

Patented articles, principally of cast iron, made and introduced. Atlantic Foundry, Phillipsburg, N. J.

Inquiry No. 2406.—For parties engaged in the rolling and polishing of copper.

Are you looking for anything in bent woodwork? Write Tucker Bicycle Woodwork Co., Urbana, Ohio.

Inquiry No. 2407.—For makers of castings for small steam engines of 2½ h. p.

We design and build special and automatic machinery for all purposes. The Amstutz-Osborn Company, Cleveland, Ohio.

Inquiry No. 2408.—For a small tongue or groove plane to cut a groove of ⅛ or less in a ¼-inch board.

For Machine Tools of every description and for Experimental Work call upon Garvin's, 149 Varick, cor. Spring Streets, N. Y.

Inquiry No. 2409.—For manufacturers of brick press or machines.

Progressive capitalist, interested in the solution of the aerial navigation problem, communicate with J. V. Janin, Seattle, Wash.

Inquiry No. 2410.—For dealers in electric elevators.

Factory room with power, steam, elevator, etc.; good light, also storage room. Chas. F. Kilburn, 84, 86, 88 Mechanic Street, Newark, N. J.

Inquiry No. 2411.—For a burner for brazing with crude oil and air pressure.

FOR SALE.—To party direct, for cash, patent 608,925 on folding umbrellas. No selling agencies need answer. M. R. Studams, Bridgeton, N. J.

Inquiry No. 2412.—For manufacturers of cheap motors.

FOR SALE.—Patent for "Vaporizer." It is O. K. and reasonable every way. G. F. Dyer, Manchester, Mass., Inventor and Patentee.

Inquiry No. 2413.—For dealers in electric novelties.

Manufacturers of patent articles, dies, stamping tools, light machinery. Quadriga Manufacturing Company, 18 South Canal Street, Chicago.

Inquiry No. 2414.—For candy making machinery, such as lozenges, etc.

Designers and builders of automatic and special machines of all kinds. Inventions perfected. The W. A. Wilson Machine Company, Rochester, N. Y.

Inquiry No. 2415.—For the manufacturers of an attachment for spoons to avoid slipping into dishes, also for the makers of a spoon with a perforated bowl for mixing batter, etc.

ELECTRIC DRY BATTERY.—Manufacturers submit free samples with casting qualities. Quote prices for quantities. Darling Motor Company, Chicora, Pa.

Inquiry No. 2416.—For manufacturers of coffee roasters.

The celebrated "Hornsby-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Refrigerating Machine Company. Foot of East 138th Street, New York.

Inquiry No. 2417.—For the address of Morton Evans & Co., makers of gasoline traction gear.

IDEAS DEVELOPED.—Designing, draughting machine work for inventors and others. Charles E. Hadley, 584 Hudson Street, New York.

Inquiry No. 2418.—For makers of gasoline fuel marine steam engines and boilers 1 to 4 h. p.

Wanted—Revolutionary Documents, Autograph Letters, Journals, Prints, Washington Portraits, Early American Illustrated Magazines. Correspondence Solicited. Address C. A. M. Box 773, New York.

Inquiry No. 2419.—For machinery for making a feed brick under pressure.

LAUNCH DESIGNS AND WORKING DRAWINGS FOR SALE.—Special designs made to order. Send stamp for booklet of designs of modern gasoline launches.

Harry J. Perkins, Naval Architect.
Grand Rapids, Mich.

Inquiry No. 2420.—For makers of hydraulic brick and clay working machinery.

WANTED.—A thoroughly reliable man to manage Steam Specialties Department in large wholesale house. Must be sober, competent and experienced. Give age, experience, references and salary expected. Address Box 482, New Orleans, La.

Inquiry No. 2421.—For makers of pocketbook rims and clasps.

Inquiry No. 2422.—For manufacturers of double automatic yard gates.

Inquiry No. 2423.—For a 20 to 25 h. p. traction engine for use on country roads for hauling freight.

Inquiry No. 2424.—For manufacturers of cheap clockwork to drive movable paper figures for advertising.

Inquiry No. 2425.—For parties to manufacture special machines.

Inquiry No. 2426.—For manufacturers of paper novelties, such as spoons with hollow handles, etc.

Inquiry No. 2427.—For dealers in second-hand belting.

Inquiry No. 2428.—For manufacturers of small refrigerating plants suitable for residences.

Inquiry No. 2429.—For a gas plant for from 25 to 50 Bunsen burners, also wire and piping.

Inquiry No. 2430.—For a dynamo for 100 to 150 incandescent lights; also an engine for pumping water and running dynamo.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending

April 8, 1902,

AND EACH BEARING THAT DATE.

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

Abdominal supports, I. E. Palmer 697,164
Accumulators, charging, R. E. Ball 697,192
Accumulators, means for charging, R. E. Ball 697,193
Advertising device, Druar & Kregar 697,240
Advertising device, Church & Reynolds 697,397
Air-brake, J. E. Normand 697,003
Air compressor, Reeder & Freville 697,414
Air ship propeller, C. Groombridge 697,403
Amalgamating machine, G. C. Scott 697,176, 697,177
Ammunition, loading tray for transferring, J. Becker 697,126
Anchor, J. G. Watson 697,300
Anchor, ship's, F. W. Kenney 697,140
Animal trap, J. Chagnet 697,233
Antislipping device, D. M. Bearing 697,135
Armor plate, manufacture of, G. Charpy 696,941
Asphalt, preparing, A. Wolskel 697,307
Automatic brake, M. A. Beck 697,393
Automatic motor, C. J. Slafter 697,107
Axle, self-lubricating, M. Brune 697,068
Bank, savings, F. G. McPherson 697,268
Bars, etc., machine for forming, W. Baisch 696,923
Battery, W. C. Banks 696,924
Bed bottom, wire, J. Hoey 697,087
Bedstead, extension, W. E. Pack 697,102
Beet puller and topper, sugar, C. W. Bradley 696,934
Belt and shirt waist connecter, J. N. Cunningham 697,329
Belt guide, C. McKeen et al 697,354
Bicycle and tricycle, G. A. H. Pietsch 697,104
Bicycle gear, E. M. Davis 697,073
Bicycle hubs, adjustable cone for, A. S. Reed 697,017
Blast furnace, G. F. Herrick 697,249
Boat, submarine, J. P. Holland 696,972
Boat transferring mechanism, L. Donne 697,202
Boats from ships, apparatus for launching life, C. F. Petersen 697,359
Boiler tube cleaner, C. T. Demarest 697,331
Bottle carrier, O. F. Clark 697,325
Bottle filling machine, Figueredo & Echemendia 696,955
Bottle filling machine, Strebel & Williams 697,221
Bottle, non-refillable, J. W. McCracken 697,352
Bottle stopper, A. Stern 697,036
Bottle washing or sterilizing machine, W. J. Cunningham 697,201
Box, L. J. Burdick 696,936
Box, E. Oldenbusch 697,216
Box fastener, Brenckle & Anger 697,195
Brake shoes, device for compensating for wear in hydraulic, A. Goldschmidt 697,140
Bran packer, J. S. Cameron 697,131
Brush, F. H. Tucker 697,295
Bubble blower, soap, C. E. Alhart 697,063
Buttons, etc., machine for making, W. B. Alden 697,189
Cage press, J. H. Hubbell 697,251
Calendar roll grinding machine, J. Linton 697,094
Cam, stamp mill, J. C. H. Vaught 697,119
Can. See Measuring can.
Can steaming machine, C. S. Bucklin 697,322
Can top and cap, J. B. Stewart 697,038
Cans, means for cooling milk, S. C. Sullivan 697,111
Canning apparatus, food, G. Lees 697,261
Candle holder, C. Bogendoerfer 697,127
Cane, flag, J. W. Freeborn 696,957
Cane, magazine torpedo, J. H. Fox 696,956
Car brake, F. F. Shaffer 697,283
Car coupling, T. J. Sammons 697,022
Car, drop door gondola, R. V. Sage 697,021
Car pusher, Boyer & Radford 697,194
Car roof, C. M. Jennings 696,976
Car step, folding, O. F. Thomas 697,293
Car street indicator, street, J. C. Wuerth 697,308
Car, tram, Stanley & Anger 697,288
Car ventilator, E. Anderson 697,125
Cars, etc. Folding step for, E. J. Hunt 697,208
Cars, system of operating fans by power for ventilating passenger, R. M. Dixon 696,947
Carousel, W. Johnson 697,254
Carriage, folding, C. E. Fanning 697,333
Cast shovel and scraper, A. Gehringer 697,243
Cash carrier, D. Lippy 697,347
Casting mold, E. D. Tucker 697,115
Centrifugal machine, A. Kaczorowski 697,255
Chain link, A. Palmros 697,165
Chain link, T. G. Aultman 697,190
Chair, A. M. Smitz 697,372
Change receiver, C. V. Smith 697,108
Chimney ventilator, C. D. Smith 697,180
Chopping knife, culinary, E. C. Phillips 697,167
Churn, F. W. Lippold 697,152
Churn, J. Groendyke 697,204
Churns, mechanism for operating vibrating, M. Cooper 696,944
Cinnamic ether of cinchona alkaloids, H. Thron 697,042
Circuit controller, E. M. Hewlett 697,144
Clock key holder, watchman's, A. Beyer 697,066
Clothes-line and peg holder or clamp, Combined safety, T. Grundy 697,404
Clutch, H. L. Henderson 697,206
Clutch, friction, A. E. Norris 697,271
Clutch operating device, G. L. Holmes 696,973
Coaster brake, vehicle, R. E. Hammer 697,337
Coffee, means for roasting, E. Boyes 697,129
Coin delivery device, J. M. Butcher 697,396
Coin freed apparatus for delivering sweets, etc., E. A. Jeffreys 697,148
Column step, T. J. Youngloye 697,310
Communion service, individual, C. P. Harris 697,247
Conduits, means for inserting cords or the like into underground, L. J. Bergdoll 697,315
Contribution box, E. A. Burns 697,231
Coop, folding chicken, F. M. Steuterman 697,037
Copper nickel sulfid ores, treating, D. P. Shuler 697,370
Core bar, collapsible, J. D. Harless 697,083
Cornstalk cutter, N. C. Krauss 697,210
Crate, folding, A. J. Nelty 697,355
Creamer, centrifugal, Reck & Mersu 697,170
Cross tie, metallic, J. J. Wagoner 697,299
Cross tie, track fastening, and rail joint, combined, G. L. Kimberly 696,979
Crushing roll drive mechanism, A. M. Acklin 697,311
Cuff holder, P. Cumming 697,328
Cultivator, Willis & Perteous 697,059
Cultivator, beet, J. W. Shields 697,028
Cultivator fertilizer distributing attachment, S. Tannahill, Jr. 697,113
Cutter bar, D. E. White 697,059
Damper, R. G. Latham 697,258
Dandy roll cleaner, Weaver & Sanford 697,302
Dash pot, W. A. Heywood 697,145
Dental appliance, C. H. Claude 697,326
Desk, W. J. McDevitt 697,266
Diamond cross cutting machine, G. Armeny 697,230
Directory, cabinet, G. W. Maxwell 697,377
Directory, etc., mechanical, G. W. Maxwell 697,376
Directory, mechanical, G. W. Maxwell ..... 697,378 to 697,382
Dish making machine, C. Anderson 696,922
Door fastener, sliding, Kinter & Roning 696,980
Door hanger, J. J. Rexroth 697,218
Dough cutting machine scrapper, J. L. Causey 696,939
Drains and sewers, mode of and means for ventilating and flushing house or other, Shone & Ault 697,369
Dredging apparatus, Nolan & Mortenson 697,215
Drill. See Seed drill.
Drum or barrel head, J. L. Sheppard 697,027
Drying apparatus, L. Atwood 697,312
Edge setting machine, H. A. Oldershaw 697,356
Electric circuit protector, C. A. Rolfe 697,219
Electric circuit regulating device, G. P. McDonnell 697,158
Electric circuits, automatical safety switch for, O. L. Plumtree 697,273
Electric controller, F. E. Case 697,132
Electric controller, automatic, McGary & Mellinger 697,267
Electric distribution system, C. P. Steinmetz 697,035
Electric elevator, A. M. Medry 696,994
Electric machines, regulation of dynamo, T. W. Williams 697,057
Electric motor controller, W. B. Potter 697,012
Electric motor starting device, R. H. Read 697,016
Electric motors, controlling, M. W. Day 696,946
Electric switch, G. W. Hart 696,963
Electric switch, E. M. Hewlett 696,969
Electric switch, G. B. Painter 697,163
Electrical energy, means for transmitting, J. E. Woodbridge 697,123
Electrolytic apparatus, F. McDonald 697,157
Embroidering machine, D. Nadel 697,269
Embroidering machine pattern mechanism, D. Nadel 697,270
Engine, W. D. Linscott 697,346
Engine driving wheel, traction, K. R. Leehart 697,260
Engine speed regulator, explosive, J. S. Klein 697,409
Engines or motors, mechanism for utilizing the power of, H. W. Schlemann 697,175
Engraving machine, W. S. Eaton 696,952
Envelop, J. Lucas 696,985
Evener, doubletree, L. A. Tweedy 697,116
Eyelet, F. J. Leland 697,344
Farm gate, A. B. Clayton 696,943
Farm gate, G. R. Clarke 697,198
Feed and water device for chickens, G. C. Lathrop 697,343
Feeder for young calves or colts, R. A. Whitford 697,304
Felly, vehicle wheel, C. B. Van Horn 697,118
Fence, E. Lavely 697,259
Fence machine, Peak & Osborne 697,357
Fence post, C. W. Snook 697,031
Fencing, woven wire, J. M. Denning 697,074
File, account, L. J. Krohn 697,092
Filtering and lubricating apparatus, oil, J. B. Allfree 696,919
Firearm sight, C. J. Hamilton 696,962
Firearm single trigger mechanism, G. E. Witherell 697,061
Fire escape, H. Boettcher 696,931
Fire extinguishing apparatus, C. Nuhring 697,006
Fire kindler and method of making, A. F. Putnam 697,014
Firing valve for subsurface expulsion tubes, J. P. Holland 696,971
Flood gate, J. H. Ogle 697,159
Forge fire pot, blacksmith's, D. D. Reese 697,275
Fruit drier tray, J. H. Collins 697,237
Fruit grading machine, A. H. Pettit 697,360
Fuel block and briquet, F. Chailly 697,234
Furnace, J. MacCormack 696,987
Furnace grate bar, forced blast, Burger & Williams 696,937
Game apparatus, M. V. Hammack 697,406
Garment stretcher, E. Pickhardt 697,103
Garment supporter clasp, T. P. Taylor 697,222
Gas and oil burner, combination, G. A. Smith 697,030
Gas capsule, G. A. Logan 696,983
Gas generator, acetylene, E. J. Dolan 696,948
Gas generators, carbid feeding device for acetylene, W. E. Scofield 697,024
Gas heater, C. W. Claybourne 697,235
Gas lighting apparatus, C. Fader 697,080
Gas making apparatus, H. Spencer 697,373
Gas producer, E. J. Duff 697,389
Gear, transmitting, J. S. Copeland 697,200
Gearing, variable speed, L. E. Kretz 697,410
Glass, roller for rolling and ornamenting sheet or plate, L. Appert 697,229
Golf ball, E. Kempshall ..... 697,417 to 697,424
Golf balls, manufacture of, E. Kempshall 697,423, 697,425
Golf stick, F. L. Slazenger 697,179
Governor, steam engine, J. B. Allfree 696,918
Grain flow indicator, C. C. Neale 696,999
Grinding or polishing machine, A. Crocker 696,945
Gun sight, R. Chestnut 696,942
Handle for a number of implements, T. G. Moser 696,985
Handle locking device, swinging, E. Baumann 696,927
Hanging and fastening device, A. Schluter, Jr. 697,278
Harness hook, C. W. Hedges 696,970
Harrow tooth fastening, Willis & Perteous 697,058
Harvester bundle carrier, H. Green 697,142
Harvester fly wheel, Phelps & Morris 697,166
Harvester reel, C. W. Priestley 697,274
Hat and coat rack, J. L. Storm 697,289
Hat block, C. Muller 697,214
Hat box, folding, E. C. Beecher 696,928
Hats, drying, J. Marshall 696,989
Hay rake, sulky, A. R. Black 697,067
Hitching device, horse, A. W. Swanberg 697,033
Hog trough, F. B. Davis 697,329
Hoist, D. E. Rowland 697,276
Horseshoe, J. Riley 697,172
Horseshoe, nailless, J. W. Morse 697,155
Horse tail holder, H. E. Gavitt 697,242
Hose supporter, C. H. Wheeler 697,049
Human body, instrument for cooling or for warming internal portions of the, R. E. Smith 697,181
Hydrant, W. Henderson 697,084
Hydrocarbon burner, L. C. Graessle 696,961
Incandescent burner mantle, Prendergast & Slinack 697,361
Inhaler, pocket, H. J. Valentine 697,117
Insulator, W. H. Nichols 697,001
Insulator for high potential currents, R. Gaertner 696,958
Iron or steel, apparatus for making, E. Meininghaus 697,213
Jar attachment, G. E. Bateman 697,314
Jar closure, W. Sinderf 697,371
Jar stopper, L. Lehrmann 697,211
Jeweler's tool, R. H. Wade 697,120
Journal box, T. H. Symington 697,040
Junction box, M. F. Whiton 697,052
Junction box coupling, M. F. Whiton 697,051
Knitting machine, G. E. Ellis 697,078
Knob-attaching device, G. B. Pickop 697,168
Lace fastener, Andrews & Morrison 697,064
Ladder, extension, C. B. Totman 697,294
Lamp, electric arc, J. Eberhardt 697,077
Lamps, controlling arc, E. Oxley 697,007
Lamps, controlling electric, E. Oxley 697,161
Lantern, railway, Love & Ray 697,348
Last and union therefor, transversely divided boot or shoe, A. D. Tyler, Jr. 697,044
Latch, door, W. H. Wilsey 697,306
Lathe attachment, J. E. Mills 697,265
Lathe pan device, H. C. Osborn 697,413
Lawn rake, W. L. Frisbie 697,137
Leading spindle, O. Sundt 697,291
Leather shredding and grinding machine, R. J. Young 697,228
Life guard, T. E. C. Wilson 697,122
Life preserver, H. Prevost 697,362
Lighting, R. Thayer 697,292
Lighting, air pressure system of, J. E. Raff 697,015
Lock and latch, combined, L. H. Mullikin 697,156
Loom, filling replenishing, J. Northrop 697,004
Loom pile wire head, H. L. Matton 697,263
Loom shuttle, self threading, J. Northrop 697,005
Loom warp stop motion, H. J. Jarry 697,253
Match box, G. Greenland 697,245
Matrix for making gramophone, zonophone, or similar records, B. Kaplan 697,256
Mattress filler, G. W. Wareham 697,045
Mattress or cushion and heating attachment therefor, A. G. Schmied 697,279
Measuring and recording measurements of material, mechanism for, J. Hall 697,246
Measuring can, closed, C. H. Weber 697,047
Measuring instrument, I. B. Hagan 697,335
Meat hook, A. T. Clark 697,197
Mechanical movement, F. McKean 697,100
Mechanical movement, E. Horton 697,342
Metal pots, self feeding mechanism for, Place & Lewis 697,011
Metallic wheel, G. H. Everson 697,079
Miter box, R. H. Dom 697,203
Molds, Forming sand, S. J. Adams 697,387, 697,388
Molding apparatus, C. M. Day 697,134
Molding apparatus, sand, S. J. Adams 697,385, 697,386
Mop wringer, F. W. Towne 697,223

(Continued on page 283)