well. but as the fault of condensing steam or moisture on the under side in cold weather and interferes with the moulding and pouring by dropping water where it is not wanted. We recommend slate on iron frames as best and safest.

Replies to Enquiries.

The following replies relate to enquiries recently published in SCIENTIFIC AMERICAN, and to the number therein given:

(3627) A. T. writes in answer to H. D. G. I use 11 cells Julien 5 S type storage and charge with 44 cells gravity, all in series. Have four 16 candle power and three 12candle power 20 volt Edison lamps. Conductors No. 10 and 12 B. and S. gauge wire. Have not been very successful, owing to great consumption of bluestone and large deposit on zincs. I tried the forms of gravity now sold with porous cups and found them a great improvement, but charging current is so low,could only burn one 16 candle power lamp for three or four hours, or say 18 to 20 hour charging. [The deposit of copper on the zincs, if occurring while charging, is due to insufficient current. If you had 52 gravity cells in two parallel series, the result would be much better, as nearly twice the current would pass. This is on the assumption that the deposition of copper occurs during the charging. If, however, your battery stands long on open circuit, the trouble will inevitably occur. Only plan would be to have some arrangement for drawing off the upper two inches of solutio from the cells when not charging. Forty-four gravity cells on 11 storage cells gives an unnecessarily high voltage. To use that number, place 8 cells in series and place the other 36 in 2 in parallel and 18 in series.—ED.]

TO INVENTORS.

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INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

December 1, 1891.

AND EACH BEARING THAT DATE.

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

Alloy, A. W. Cadman 464,147
Alloys, making, S. Singley 464,395
Andiron, J. H. & J. A. Kimbro 464,437
Animal trap, Murphy & Lennon 464,479
Armature for dynamos and electric motors, S. V. Day 464,216
Ash pan and boiler cleaner, Brennan & Pitcher 464,272
Autographic registering apparatus, J. E. Peirce 464,267
Automaton, A. M. Pierce 464,268
Axle boxes, dust guard for car, J. Petithomme 464,107
Axle, car, W. S. Kisinger 464,028
Badge, L. O. Keil 464,365
Bar. See Sickle bar.
Basin or like structure, wash, T. Kennedy 464,327
Battery. See Open circuit battery.
Beam coping die, J. M. Long 464,130
Bearing for rollers, rotary, A. M. Rowland 464,201
Bed, chair, G. Goldschmidt 464,153
Bed, folding, J. G. Peace 464,387
Bed, invalid, Kaiser & Wilkinson 464,158
Bedstead, folding, D. M. Stevenson 464,047
Beehives, super for, W. A. Hawthorne 464,360
Beer, apparatus for distributing, J. Hartin 464,021
Bicycle, G. W. Fernald 464,224
Bicycle, M. B. Gibson 464,357
Bin, T. H. Williams 464,409
Bisulphites, apparatus for making solutions of, Peck & Outterson 464,104
Block grooving and machine. H. Beisheim ..... 4 ,191
Board. See Game board.
Boiler. See Steam boiler. Water tube boiler.
Boiler furnace, steam, A. Heberer 464,155
Boilers, baffle plate for, F. F. Landis 464,305
Book, blank, H. H. & F. H. Hoffmann 464,325
Book, blank, T. M. White ..... 4 ,310
Book, memorandum copy, S. J. Silberman 464,394
Books, sheet music, etc., holder for, T. Murley 464,219
Boot or shoe sole trimming machine, H. F. Rooney 464,289
Box. See Coal box. Coin box. Letter box.
Bracket. See Staging bracket.
Brake. See Car brake. Electric brake. Sled brake. Wagon brake.
Brake handle, P. M. Kling 464,100
Bread pan, G. C. Britton 464,420
Brick mould sander, A. Naylor 464,286
Broom press, C. W. Doe 464,094
Broom rack or holder, W. C. Jones 464,176
Buggies, hanger for bodies of, C. S. Schelleng 464,320
Bullet sizer, J. H. Barlow 464,311
Bullion sampler, Knoepfel & Miller 464,252
Burner. See Lamp burner. Vapor burner.
Button, G. Cook 464,149
Button setting machine, Porter & Glover 464,143
Calendar, perpetual, W. W. Kitchen 464,372
Cam or gear and blank therefor, F. F. Raymond, 2d 464,165
Can. See Sheet metal can.
Can heading machine, M. W. Edgar 464,297
Can wiping machine, C. A. Burt 464,007
Candlestick for Christmas trees, M. Parpert 464,228
Cannon, breech-loading, S. M. Tyrrell 464,089
Capsule, S. E. Heineman 464,121
Car brake, Pool & Beals 464,038
Car coupling, A. B. Allen 464,000
Car coupling, H. Caldwell 464,426
Car door fastener, P. W. Connor 464,242
Car door, grain, J. F. McGhee 464,078
Car dumping, J. J. Souder 464,086, 464,087
Car heating apparatus, freight, Putnam & Sargent 464,254
Car, metallic railway, G. W. Dithridge 464,314
Car mover, E. A. Munson 464,379
Car replacer, J. M. Donnelly 464,432
Car seal, L. A. Foote 464,174
Car starter and brake, F. J. Stafford 464,111
Car, street, G. T. Chapman 464,450
Cars, etc., beater for railway, C. A. Spring *et al* 464,322
Carding engine, Knowles & Tatbam 464,029
Carding engine, traveling flat, Lord & Whitworth 464,161
Carding machines, means for adjusting bearings of, Lord & Woodhead 464,160
Carpet renovator, I. T. Barton 464,414
Carriage gear, Trombly & Kinsman 464,050
Carrier, See Cash and parcel carrier.
Case. See Map case. Show case.
Cash and parcel carrier, R. F. Shannon 464,482
Cash register and recorder, F. E. Richardson 464,257
Cash register, indicator, and recorder, H. Cook 464294
Centrifugal machine for making pulp tubes, H. W. & H. W. Johns, Jr 464,213
Chain wrench, A. C. Whittier 464,167
Chair. See Opera chair. Rocking chair.
Chandelier display hanger, M. Meyberg 464,284
Chopper. See Cotton chopper.
Chuck, lathe, J. Chase 464,009
Churn, G. P. Whithorn 464,236
Churn motor, J. B. Miller 464,226
Cigars, cigarettes, etc., lighting device for, Smith & Barnham 464,397
Clamp. See Hose clamp. Sewing machine needle clamp.
Clip. See Lubricator clip.
Closet. See Dry air closet.
Clothes pounder, J. Phillips 464,081
Clutch, E. D. Schmitt 464,481
Clutch for driving mechanism, automatic, W. P. Allen 464,447
Coal box, parlor, C. Fisbback 464,250
Cock, angle, F. L. Clark 464,451
Cock, balanced ball, J. P. Farley 464,249
Cock, self-lubricating stop, E. M. Dart 464,429
Coffee urn faucet attachment, H. Born 464,091
Coin box, G. W. Price 464,464
Collar fastener, horse, C. Kiper 464,225
Colter for plows, adjustable wheel, McCleary & Stone 464,439
Conveyer, C. S. Wells (r) 11,206
Copying and recording tablet, duplex, J. C. Browning 464,292
Copying pictures, device for, L. A. Hagan 464,359
Copying press, M. Scheid 464,392
Cotton chopper, J. L. McCaul 464,179
Cotton gin feeder, J. W. Smith ..... 4 ,483
Coupling. See Car coupling. Hose coupling. Hose or pipe coupling. Locomotive coupling. Thill coupling.
Courts, device for determining points in laying out rectangular, L. A. Swope 464,205
Crank arm, J. Benson 464,416
Crate, J. L. Reeves 464,122
Crusher. See Ore crusher.
Crushing and pulverizing machine, R. McCully 464,433
Cue chalker, A. A. Otto 464,288
Cultivator, W. M. Brinkerhoff 464,262
Cultivator, J. Craig 464,011
Cultivator, J. C. Thomas 464,124
Cuspidor and toy figure, combined, H. S. Brewington 464,273
Cut-off, automatic, E. C. Waldurff 464,112
Cut-off, water, Evans & Bear 464,323
Cutter. See Meat cutter. Nail cutter.
Dam, floating, L. Debarle 464,350
Decorticating vegetable fibers, machine for, D. D. Spence ..... 4 ,308
Die. See Beam coping die.
Door check, P. A. Painter 464,079
Door securer, C. M. Bate 464,415
Draught equalizer, A. Crannell 464,012
Drill. See Rock drill.
Drilling machine, F. Gildemeister 464,126
Drilling machines, hydraulic feed for, M. C. Bullock 464,182
Dry air closet, O. A. Lanphear ..... 4 ,197
Dye, blue, M. Hoffmann 464,135
Dyeing machine, yarn, L. Weldon 464,337
Easels, picture rail for, C. W. Smith 464,045
Electric brake, L. C. Atwood 464,002
Electric circuit closer, R. Varley, Jr 464,134
Electric conductor joint, H. W. Fisher 464,475
Electric conductor splice, W. J. Hield 464,022
Electric elevator, W. Baxter, Jr 464,470
Electric heater, P. Wright 464,055
Electric motor, M. H. Collom 464,063
Electric motor, H. A. Florian 464,299
Electric motor, J. R. Robinson 464,231
Electric regulator, Holtzer & Cabot 464,136
Electric wire support, R. Ellison 464,298
Electrical generator, V. Hirbec 464,156
Elevator. See Electric elevator. Ice elevator.
Elevator controller, J. H. Clark 464,452
Elevator controlling device, C. E. Foster 464,278
Engine. See Carding engine. Fire engine. Rotary steam engine. Steam engine. Wind engine.
Engines, magneto-electric ignitor for combustible vapor, L. G. Woolley 464,347
Envelope, J. L. Vattier 464,208
Envelope fastener, H. Goodacre 464,063
Evaporating apparatus, W. Venuleth 464,166
Evaporating apparatus, vacuum, S. Pick 464,388
Extension table, F. P. Cobham 464,114, 464,115
Eyeglasses, E. S. Fowler 464,456
Fabric holding frame, M. H. Rumpf 464,442
Fan attachment for doorways, S. H. Rapp 464,333
Faucet, A. W. Delane 464,276
Faucet, L. L. Hall 464,019
Faucet, beer, T. F. McDonald 464,318
Faucet, compound, W. M. Butler 464,472
Feather renovator, J. Baur 464,213
Feed water purifier, Egan & Udell 464,474
Fence, J. G. Burcham 464,349
Fence post driver, H. D. Marshall 464,031
Fence, wire, I. K. Hollinger 464,435
Fence wire tightening implement, T. J. Thorp 464,207
Fender. See Plow fender.
Fibrous material, educing and degumming, G. E. Armstrong 464,056
File, bill, B. H. Gleason 464,127
Firearm cleaning rod, A. Von Wehrstedt 464,099
Fire engine and hose wagon, combined, C. T. Holloway 464,281
Fire engine, electric, M. W. Dewey 464,244
Floor scrubber, V. A. Miller 464,376
Fog signal, H. G. Maloney 464,375
Fork. See Hay fork.
Frame. See Fabric holding frame.
Fruit gatherer, D. G. McClay 464,380
Fruit packing device, J. M. Davies 464,150
Fruit pitting machine, J. Harps 464,128
Fumigator, S. P. Bozarth 464,419
Furnace. See Boiler furnace. Ore roasting furnace. Steel making furnace.
Furnace, C. R. Burr 464,425
Furnace, T. E. Caddy 464,008
Furnace, E. C. Condit 464,241
Furnace, J. N. Ruebhausen 464,187
Furnace for the incineration and destruction of house garbage, town refuse, etc., E. W. Cracknell 464,171
Fuse tool, P. Steves 464,088
Game apparatus, L. Nance 464,035
Game apparatus, E. Woodbury 464,469
Game board, D. D. Harr 464,098
Gas generating apparatus, A. Richter 464,040
Gate. See Railway crossing gate. Sliding gate.
Gate, M. G. Caldwell 464,170
Gate, W. E. Garthwaite 464,280
Gear cutting machine, J. Sherman 464,233
Gear, driving cham, H. Guthrie 464,154
Generator. See Electrical generator.
Gram distributing spout, double swivel, E. D. Mayo 464,101
Grate, E. Gibson 464,185
Grinder, sickle, A. Moxley 464,178
Grinding drills, indicator for, T. A. Taylor ..... 4 ,230
Gun, breech-loading shot, G. S. Bartlett 464,060
Gun lock, J. Conner 464,215
Halter, H. J. Hush 464,283
Hammer for driving, W. Jacoby 464,217
Handle. See Brake handle.
Hanger. See Chandelier display hanger. Harness hanger. Trolley wire hanger.
Harness hanger, Pearse & Keehn 464,366
Harrow, E. E. Whipple 464,345, 464,346
Harrow and weeder, W. A. Small 464,396
Harrow, disk, A. G. Hill 464,317
Hasp lock, C. B. Lampkin 464,373
Hat bodies, cone for forming, B. J. Brown, Jr., 464,421, 464,422
Hat box indicator, A. B. Brunell 464,006
Hats, machine for punching holes in, J. Eaton 464,117
Hay fork, N. Isackson 464,363
Heater. See Electric heater.
Heating apparatus, electric, M. W. Dewey 464,247
Heel nailing machine, F. F. Raymond, 2d 464,255
Hinge, A. Sonnemann 464,369
Hinge, spring, R. H. Wiles 464,406
Hoisting machine, O. F. Smith 464,190
Holder. See Paper holder. Picture holder. Towel holder.
Hook. See Swivel hook.
Hook, E. Dederick 464,473
Hoop, child's, H. Doublier 464,151
Horse training device, P. W. Cashion 464,113
Horseshoes, manufacture of, J. Vernon 464,209
Hose carriage, electric, M. W. Dewey 464,245
Hose clamp, J. H. Crisp 464,338
Hose coupling, W. D. Patterson 464,386
Hose or pipe coupling, F. W. Wright 464,146
Hub, B. S. Kennett 464,366
Ice breaker or cracker, J. E. Richard 464,039
Ice cream freezer, T. H. Besse 464,169
Ice elevator, J. J. Stein 464,259
Ice making, cooling, and refrigerating apparatus, F. B. Hill 464,434
Index books, machine for cutting, J. W. Maclachlan 464,438
Index for letter or account books, W. D. Bevin 464,417
Indicator. See Cash register indicator. Hat box indicator. Potential indicator.
Injector, steam, J. Desmond 464,339
Inking rollers, apparatus for applying skins, etc., to, Cartwright & Wallwork 464,093
Insect trap, F. Sevenson 464,400
Insulated wires, testing, R. Varley, Jr 464,125
Insulating composition, S. W. Kimble 464,367
Insulating purposes, etc., composition of matter for, S. W. Kimble 464,369
Insulating support for electrical apparatus, S. W. Kimble 464,368
Ironing table, S. H. Haines 464,456
Jack. See Lifting jack.
Joint. See Electric conductor joint.
Jute bagging, making, B. & A. Gratz (r) 11,205
Kite, T. Ansboro 464,412
Knit drawers, H. Graux 464,115
Knitting machines, loop holder mechanism for, S. S. Cook 464,313
Lace curtain stretcher, A. P. Bohlinger 464,271
Lacing stud, G. C. Hill 464,460
Ladder, traveling step, J. E. Gordon 464,433
Lamp burner, H. L. Green 464,358
Lamp, electric arc, W. A. Nicholson 464,132
Lamps, treating filaments for incandescent electric, J. Bradley 464,005
Lantern, folding, L. Von der Hoya 464,486
Latch, J. M. Matthews 464,478
Latch and lock combined, R. M. Hunter 464,282
Latch and lock, combined, G. B. Wright 464,222
Lathe dog, E. A. Warburton 464,051
Leather, tanning and dressing, D. W. Brown *et al* 464,423
Letter box, street, H. H. Cummings 464,275
Letters in door plates, forming, T. Huster 464,362
Lifting jack, H. W. Cornell 464,454
Limb, artificial, A. Gault 464,356
Liquids, apparatus for distributing, A. Hamelberg 464,020
Lock. See Gun lock. Hasp lock. Nut lock.
Lock, W. F. Hyatt 464,023
Locomotive coupling, T. L. McKeen 464,381
Loom shuttles, tension regulating device for, J. P. Thompson ..... 4 ,444
Loom temple, L. F. Brous 464,214
Loom temple, W. F. Draper *et al* 464,193
Loom temples, thread cutting attachment for, E. S. Stimpson 464,203
Looms, pile wire for, G. Segschneider 464,043
Lubricator, E. Lunkenheimer 464,306
Lubricator, S. E. Smith 464,443
Lubricator clip, O. W. Griffiths 464,119
Magnet, electro, O. E. Lundstedt 464,198
Magnet for dynamos or motors, field, C. E. Kammeyer 464,027
Map case, L. Ludgin 464,030
Marble shooter, Wilkinson & Wendel 464,407
Marking and canceling machine, post, T. Leavitt 464,329
Match safe, pocket, C. F. Widman 464,405
Measuring spoon, M. Scheid 464,393
Meat cutter, P. & W. Deissler 464,184
Metal, rolls for corrugating and bending, W. J. Turpin 464,403
Metals of the alkalies from molten chloride, apparatus for obtaining, L. Grabau 464,096
Mining machine, Le Grand & Klotz 464,374
Mirror, H. Berry 464,004
Motor. See Churn motor. Electric motor.
Musical instruments, tuning peg for, R. Kuenstler 464,328
Nail. See Tapered and pointed nail
Nail assorting machine, C. W. Glidden 464,196
Nail cutter, J. T. Lewis 464,341
Nailing machine reel, H. Weeks 464,234
Nautical observations, instrument for taking, W. H. Beehler 464,261
Nut lock, G. H. Ives 464,303
Nut lock, R. W. Norwood 464,440
Nuts, grains, etc., revolving cleaner for, B. H. Vellines 464,468
Nozzle, shut-off, F. W. Scott 464,335
Open circuit battery, Wollensak & Gill (r) 11,207
Opera chair, S. W. Peregrine 464,388
Ore crusher, G. & A. Raymond 464,083
Ore roasting furnace, F. O'Brien 464,103
Ore washer, H. S. Davis 464,431
Organ, M. D. Van Winkle ..... 4 ,270
Packing, metallic, E. P. Monroe ..... 464,330 to 464,332
Pad. See Sweat pad.
Padlock, M. Jackson 464,326
Paint, W. H. Shearer 464,336
Pan. See Ash pan. Bread pan.
Paper cutting machine, C. Seybold 464,202
Paper distributer, toilet, F. W. Scutt ..... 4 ,321
Paper holder, toilet, E. Morgan 464,377, 464,378
Paper machines, dandy roll for, A. J. Tucker 464,467
Paper stock, digester for treating, McCormack & Van Zile 464,199
Phonograph, G. H. Herrington 464,476
Photographic cameras, lens supporter for, C. Mills 464,462
Photographic camera shutter, A. G. Tisdell 464,260
Photometer and actinometer, L. H. Barker 464,059
Piano, W. Bieger 464,239
Picture holder, M. Wirths 464,053
Pipe and nut wrench, L. M. Cobb 464,274
Pipe or nut wrench, J. L. Taylor 464,401
Pipe wrench, R. Atkin 464,238
Pipe wrench, H. K. Carpenter 464,192
Pipe wrench, A. C. Whittier 464,168
Pipe wrenches, die for making, Fawcett & Smith 464,352
Planter, W. A. Stewart 464,399
Planter, corn, J. R. Cox 464,010
Planting attachment, potato, J. H. Forman 464,263
Plastering compound, W. M. Dawson 464,110
Plow, A. Ellis 464,095
Plow, A. M. Fitch 464,015
Plow fender, D. C. McConnell 464,102
Plunger press, rebounding, T. J. Strait 464,484
Pocket implement, combination, A. A. Low, 464,138 to 464,141
Potential indicator, C. E. Kammeyer 464,026
Press. See Broom press. Copying press. Plunger press. Printing press.
Printer's chase, E. Heffelfinger 464,070
Printing apparatus, ticket, Dyer & Malmgren 464,194
Printing press, W. J. Shea 464,110
Printing press, H. Swain 464,485
Printing press, Ward & Wickwire 464,052
Printing presses, inking apparatus for, C. C. Small 464,044
Propeller, screw, A. H. Morris 464,033
Propelling and steering boats, J. W. Williams 464,408
Pump, air compressing, E. C. Fasoldt 464,223
Pump for raising water near railways, C. Hodgson 464,361
Pump, hydraulic air, J. Wicek 464,237
Pump, steam vacuum, G. H. Nye 464,037
Pumps, plunger for working barrels of, J. Bird 464,418
Punching and swaging machine, combined, W. H. Johnson 464,024
Rack. See Broom rack.
Radiator, steam heating, E. M. Link 464,159
Railway, H. Day 464,455
Railway crossing gate, G. E. Miller 464,461
Railway crossing gate, B. F. Teal 464,048
Railway crossing signal, H. W. Ragsdale 464,145
Railway frog, P. P. Merriman 464,032
Railway rail fastener, J. S. Peirce 464,180
Railway switch, M. Charlton 464,428
Railway switch, D. M. Church 464,061
Railway switch, automatic, P. H. Herndon 464,071
Railway tie, A. G. Budington 464,424
Railway tie, W. B. Teal 464,309
Railway tie, J. C. Wolfe 464,054
Railway tracks, bed support for, E. R. Edwards 464,173
Railway trains, electric apparatus for use on, R. A. Wilder 464,090
Railway trolley wheel, electric, S. W. Kimble 464,370
Recorder. See Watchman's electric recorder.
Reel. See Nail machine reel. Wire reel.
Refrigerating machine, P. Beck 464,348
Refuse burning attachment for outhouses, J. R. Jacobus 464,251
Register. See Cash register.
Regulator. See Electric regulator.
Relay, R. Varley, Jr 464,133
Resilient spiral washer and making the same, H. A. Harvey 464,301
Roach and insect trap, J. Nile 464,343
Rock drill, H. S. Grace 464,340
Rocking chair, tete-a-tete, J. B. Pooley 464,142
Rod. See Firearm cleaning rod.
Roof cresting, C. B. Nelson 464,036
Rotary steam engine, M. J. Mapes 464,162
Rotary steam engine, F. Meyer 464,265
Salesman, automatic, M. H. Foster 464,067
Sash fastener, A. Armstrong 464,413
Sash fastener, J. A. Montgomery 464,265
Sash fastener, J. C. Waldrip 464,445
Sawmill skid, B. H. Lawter 464,137
Saw swaging machine, M. S. Nelms 464,382
Scaffold, J. L. Kelley 464,177
Scissors, device for sharpening, S. R. Froideveaux 464,154
Scissors, punch, and wire cutter, combined, J. W. Krank 464,475
Screw eye, C. D. Rogers 464,466
Self-waiting table, E. E. Howell 464,473
Sewer trap, W. H. Carberry 464,240
Sewing carpets, apparatus for, F. Ames 464,211
Sewing machine, buttonhole, G. J. Nopper 464,287
Sewing machine feeding mechanism, M. H. Pearson 464,480
Sewing machine needle clamp, P. Diehl 464,013
Sewing machine quilting attachment, T. A. Hill 464,072
Sewing machine, shoe, W. Y. Ober 464,383
Sewing machine treadle mechanism, P. Diehl ..... 4 ,277
Sewing machines, button sewing attachment for, P. Schoen 464,042
Sewing machines, carpet clamp and stretcher for, F. Ames 464,212
Sewing machines, work guiding attachment for overseaming, C. H. Foster 464,066
Shafts, machine for applying and removing collars from, R. C. Greenerd 464,316
Shaving and awdust conveyer, W. Ross 464,186
Sheet metal can, F. H. Palmer 464,385
Sheet metal moulding and embossing machine, J. W. Yates 464,410
Shelf system forstores, overhangin transparent, A. Rehbarger 464,344
Shoe counter machine, A. Bredenberg 464,449
Show case, M. A. Campbell 464,148
Sickle bar, G. M. Combs 464,453
Siding for houses, G. R. Dean 464,172
Sifter, ash, B. H. Cook 464,183
Signal. See Fog signal. Railway crossing signal. Time signal.
Skate, T. W. Bryant 464,312
Sled brake, E. Crosby 464,336
Sliding gate, W. R. White 464,235
Slotting machine, H. B. Robischung 464,307
Soap powder canister, F. S. Fairchild 464,315
Sodium, obtaining metallic, L. Grabau 464,097
Soldering machine, can, T. H. Hamilton 464,459
Sole buffing machine, J. H. Ryder 464,232
Spool cabinet, L. M. Robbins 464,230
Square, self-marking try, W. Johnson 464,074
Staging bracket, collapsible, G. R. C. Davis 464,243
Stamp, safety address, D. Skutsch 464,085
Stanchion, C. Phelon 464,080
Steam boiler, W. H. Drake 464,065
Steam engine, oscillating, W. Thomas 464,206
Steam trap, A. A. Goubert 464,018
Steam trap, Sackett & Irwin 464,390
Steel castings, method of and apparatus for compressing, S. C. Rockman 464,441
Steel making furnace, basic hearth, J. Riley 464,229
Steering gear, J. C. & S. Lake 464,304
Stone, manufacture of artificial, L. Grote 464,120
Stool, G. F. Steese 464,046
Stool, revolving adjustable piano, C. O. Parsons 464,319
Store service apparatus, J. M. Caille 464,293
Stove, cook, W. R. K. Stanford 464,123
Stove, gas, W. L. Cort 464,295
Stove, gas, Goetz & Ruud 464,457
Stove, gas, J. N. Ruebhausen 464,188
Street sweeper, G. Focht, Jr 464,353
Stringed instruments, tuning peg for, F. L. Becker 464,003
Sweat pad, A. Scott 464,258
Switch. See Railway switch.
Swivel hook, J. A. Bartlett 464,291
Table. See Extension table. Ironing table. Self-waiting table.
Table and wash stand, combined, J. Penney 464,106
Tack driving machine, Nye & Copeland 464,200
Tapered and pointed nail, T. W. Porter 464,144
Telegraph repeater, R. L. Atkinson 464,001
Telephone, electric transmitting, R. Eickemeyer 464,152
Thill coupling, H. Parkinson 464,164
Thill couplings, anti-rattler for, E. E. Stephenson 464,220
Thistles, destroying Canada, W. Burton 464,092
Thrashing machines, feeder and band cutter for, O. Cleaveland 464,062
Tie. See Railway tie.
Time locks, key for winding, J. W. See 464,189
Time signal, W. E. Gibb 464,016
Tire setting machine, F. Heavener 464,302
Tire, wheel, S. Elliott 464,014
Tires, manufacture of blooms for rolled steel, J. Munton 464,077
Towel holder, L. H. Redfield 464,108
Toy fishing apparatus, I. Samuels 464,391
Trains, method of and apparatus for the propulsion of, J. B. Mahana 464,342
Transformer and armature core, C. E. Kammeyer 464,026
Trap. See Animal trap. Insect trap. Roach and insect trap. Sewer trap. Steam trap.
Tripod, J. L. Brown 464,471
Tripod, S. J. Osborne 464,384
Trolley wire hanger, T. E. Adams 464,411
Trolley wire hanger, S. W. Kimble 464,371
Trolley wires, crossing for, R. M. Jones 464,129
Truck, car, E. Peckham 464,253
Truck, car, J. T. Robinson 464,041
Tubes, process of and apparatus for manufacturing copper, A. S. Elmore 464,351
Type distributer, J. L. McMillan 464,163
Type distributing machine, C. H. Joslyn 464,477
Typewriting machine, S. Fujiki 464,355
Typewriting machine, W. M. Jenne 464,436
Typewriting machine, C. Spiro 464,398
Typewriting machines, cleaning attachment for, C. E. Tomlinson 464,221
Valve for compound engines, F. W. Johnstone 464,175
Valve for fire extinguishers, automatic, C. L. Fortier 464,264
Valve for regenerative stoves or furnaces, S. Forter 464,195
Valve for water gauges, safety, F. H. T. Thomsen 464,049
Vapor burner, Lannert & Jeavons 464,076
Vehicle, caterer's, J. F. Baldwin 464,058
Vehicle, combined land and water, T. J. Olsen 464,227
Vehicle, electrically propelled, M. W. Dewey, 464,246, 464,248
Velocipede, C. F. Hadley 464,300
Velocipedes, detachable seat for, S. H. Beck 464,448
Ventilating apparatus, W. T. Sugg 464,204
Violin, Hudson & Pickup 464,157
Vise, lineman's, J. McIsaac 464,034
Wagon brake, W. H. Arnold 464,057
Wagon brake, H. M. Welty 464,404
Waistband, T. D. Terry 464,402
Washstands, supply tank for, J. Penney 464,105
Washer. See Ore washer. Resilient spiral washer.
Washing machine, A. W. Gibbs 464,017
Washing machine, S. Grogg 464,069
Washing machine, H. C. Schultz 464,334
Washing machine, J. A. & A. M. Weston 464,181
Watch, stem-winding, J. A. L. Monnier 464,131
Watchman's electric recorder, H. Redding 464,256
Water tube boiler, H. W. Seller 464,109
Welding tires, etc., gauge and holder for, S. H. Cawley 464,427
Wheel. See Railway trolley wheel.
Whips, manufacture of, G. M. Weidenhamer 464,210
Wind engine, I. A. Jefferson 464,364
Windmill, J. Hosey 464,224
Windmill governor, E. P. Downing 464,064
Windmills, pumping attachment for, C. F. West 464,446
Wire, die for cutting off and pointing pieces of, C. D. Rogers 464,466
Wire reel, C. J. Preston 464,082
Wire winding tool, D. Fraser 464,279
Wrench. See Chain wrench. Pipe wrench. Pipe or nut wrench.
Wrench, D. S. Robinson 464,084
Yarn hanking machine, J. Dart 464,430

DESIGNS.

Basket, work, W. H. Plumb 21,187
Bottle, E. J. S. Van Houten 21,192
Bracket, B. H. Sanders 21,199
Knob or pull, E. G. & W. Hess ..... 21,196 to 21,198
Medallion or medal, T. Dorwin 21,195
Napkin ring, W. H. Ludwig 21,193
Paper weight, R. S. Groves 21,201
Pen holder, O. Mussinan, Jr 21,195
Spoon, L. M. Webb 21,193
Toilet case, A. F. & A. Brabant 21,200
Vehicle step, W. A. Schleicher ..... 21,188 to 21,191
Washer, C. W. Chisholm 21,194

TRADE MARKS

Asbestine pulp, Natural Dam Pulp Company 20,417
Beer, National Brewery Company 20,430, 20,431
Boots and shoes, Little, Maxwell & Co 20,432
Canned fruits and vegetables, D. W. Archer 20,422
Caramels, Wenneker-Morris Candy Company 20,426
Champagne, Bostwick, Rieck & Co 20,411
Cigars, M. Schendel 20,420
Cigars, B. Suarez y Gonzales 20,435
Flour, C. C. Washburn's Flouring Mills Company, 20,421 to 20,424
Flour, wheat, Wichita Valley Mill and Elevator Company 20,439
Flowers, seeds, bulbs, and analogous products, cut and potted, Florists' International Telegraph Delivery Association 20,425
Game, parlor, G. B. Leiter 20,416
Hair tonic and curling fluid, K. M. Da Mond 20,434
Insecticide, G. J. Schmitt 20,419
Insulating purposes, splicing tape for, E. S. Greeley & Company 20,438
Kid and morocco leather, Quaker City Morocco Company 20,418
Meat, fluid or paste extract of, L. Crocker 20,427
Oats and cracked wheat, rolled, Steward & Merriam 20,429
Pens, metallic, L. Isaacs & Co 20,415
Remedy for cholera, cramps, diarrhea, and flux, liquid, H. C. Lemke 20,428
Soap, toilet and laundry, Enterprise Soap Works 20,433
Tea, coffee, and cocoa, Densham & Sons 20,413
Tobacco and cigarettes, cut, P. Rabell 20,437
Toilet preparation for the skin, liquid, Chiles & Co 20,412
Whisky, A. S. De Lissa 20,414

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