

TO INVENTORS.

(5213) G. B.—You will find a complete rule for finding the day of the week for 6,000 years including the full centuries, in *SCIENTIFIC AMERICAN SUPPLEMENT*, No. 870.

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

Abacus attachment for plates, H. Stewart.	501.370
Abrading device, H. Edward	501.369
Air brake, L. A. Pinkston.	501.369
Air compressor pump, Locker & Gennert.	501.369
Airship, T. Steinmann.	501.111
Alloy, Richards & Hunt.	501.233
Ammeter, W. Hochhaus.	501.144
Animal skins, A. & H. Burson	501.143
Armature, South, moderator.	501.173
Armature, E. A. Sperry	501.194
Arm rest, Rodgers & Schudy.	501.564
Asphalt, apparatus for mixing, J. Schubert.	501.215
Atomizing fluids, F. F. Bourdill.	501.178
Balcony bolt, J. B. Chetwynd.	501.155
Ball bearing, R. F. Simon.	501.374
Ball bath, H. Van Dorn.	501.119
Barbed fencing, T. V. Allis	501.136
Bathtubs, attachment for, C. H. Stephenson.	501.504
Belt fastener, O. J. Baldwin.	501.368
Bicycle, E. R. Corbett.	501.269
Bicycle, J. E. Wright.	501.269
Bicycle gear, E. F. Taylor.	501.269
Bicycle saddle, A. Mecky.	501.280
Bicycle seat spring, H. Bergfels (r).	501.269
Bicyclette, O. L. Willwaber.	501.269
Billiard ball holder, G. Rohrbach.	501.373
Blankbook, F. H. & E. H. Hoffmann.	501.370
Boob in ladder, A. H. Hawes.	501.370
Boat belt, M. Schaefer.	501.136
Boiler feeder, A. Sanding & Barton.	501.315
Boot, rubber, E. Kissinger.	501.022
Boot tree, C. W. Clark.	501.183
Bottle for glue etc., C. H. Leggett.	501.262
Bottle uncapping tool, A. L. Bernardin.	501.155
Botting machine, J. A. Nordyke.	501.155
Bongom holder, J. Mathison.	501.262
Box, J. M. Leaver.	501.085
Brace packer, J. S. Cameron.	501.369
Brick barrow, D. J. C. Arnold.	501.914
Brine tank, L. Block.	501.370
Bro m. E. Shaw.	501.370
Broom handle, A. B. Thomas.	501.370
Brooms, mfg. of, J. T. C. Stech.	501.215
Brueh for dynamo, J. P. B. Flaks.	501.061
Brush holder, I. L. Landis.	501.084
Bung, A. J. Diebolt.	501.084
Button setting tool, J. Mathison.	501.262
Cable kite, E. H. McCallan.	501.262
Cake machine, P. D. Hathon.	501.371
Can, G. Waeber.	501.136
Can capping machine, F. P. & I. Goode.	501.242
Can opener, W. G. Browne.	501.242
Candlestick, T. J. & O. Q. Stille.	501.478
Candy making, R. F. Ziegler.	501.136
Cap, powder, R. B. Sauer.	501.136
Car tie mounting, E. W. Watt.	501.136
Car brake, Gay & Parsons.	501.442
Car brake, A. B. Rote.	501.103
Car coupling, F. A. Gaudet.	501.414
Car coupling, W. Gerard.	501.414
Car coupling, J. A. Ostry.	501.414
Car coupling, E. Klinger.	501.414
Car heater, E. A. Quisenberry.	501.361
Car starter and brake, R. Schrodieln.	501.474
Carburetor, McCrory & House.	501.155
Carriage coupling, B. R. Bailey.	501.215
Cash indicator and register, E. H. Murdock.	501.155
Cassette, J. C. Searle.	501.155
Card holder, B. D. Knight.	501.270
Carding engines, J. Vaughan.	501.369
Carpet stretcher, G. W. Blanchard.	501.136
Castings, making, W. Doolittle.	501.033
Center seal, J. Hearne.	501.242
Chain, Hood & Co.	501.478
Chain, J. S. Thompson.	501.478
Chlorine or caustic alkali, mfg. C. W. Waite.	501.172
Cigar bunches, machine for wrapping, C. Hyatt.	501.077
Circuit interrupter, A. Wurts.	501.202
Clamp for chases, Pratt & Payne.	501.262
Cloth pressing machine, Kirk & Lee.	501.342
Coal dumping machine, J. A. Lans.	501.342
Coat and ash sifter, H. Roth.	501.252
Coal hook, A. White.	501.455
Coffin, J. Loersch, Jr.	501.136
Coloring composition, Albertson & Briggs.	501.371
Conveyer belt, G. E. Stead.	501.478
Conveyer, J. Searle.	501.478
Crane, J. S. Thompson.	501.478
Commutator brush holder, A. J. Shaw.	501.136
Commutator connection, N. C. Bassett.	501.509
Copy holder, J. Searle.	501.233
Corkscrew, C. Puddefoot.	501.465
Corn harrower, W. M. Platt.	501.103
Corn planter, F. S. Banks.	501.442
Corn fastener, H. H. Wagoner.	501.061
Cornet fastener, H. H. Wagoner.	501.222
Cotton press, J. L. Hayward.	501.414
Coupling for pipes, T. W. Moran.	501.465
Crane for milk cans, C. N. Wilcox.	501.172
Crow, C. E. King.	501.142
Crow, W. C. H. Luther.	501.142
Crescote compound, B. E. Seifert.	501.222
Cultivator, M. Macleod.	501.222
Cut-off for slide valves, M. Wilkes.	501.222
Cutter, C. Hasbe.	501.215
Cycles, driving mechanism for, W. W. Carns.	501.061
Cylinders, J. H. Romsdahl.	501.061
Dental engine, J. O. Brown.	501.077
Dental tool, H. C. Woford.	501.112
Dinner pail, E. B. & A. R. Anderson.	501.112
Dis cleaner, A. Insinger.	501.242
Diebes, wooden, D. H. Bremner.	501.402
Drift equalizer, H. M. & R. M. Hickok.	501.112
Dredging machine, E. Walsh.	501.112
Dresser, J. Kendrick.	501.077
Drum case, E. Boulanger.	501.061
Duplicating machine, R. Morganteier.	501.061
Dumplings, W. F. Weber.	501.061
Dust board for axle boxes, J. J. Bensenbe s.	501.332
Dye, H. Hassencamp.	501.112
Dye, M. B. Bunkel.	501.112
Dye, F. Bunkel.	501.112
Dye, Ulrich & Lauch.	501.112
Dyeing black, W. Pittinger.	501.112
Dynamo, H. L. Tyler.	501.112
Dynamo regulator, W. H. Atkins.	501.061
Dynamo, regulating, Kightman & Lemp.	501.061
Electric alarm clock, George Walker & Bedford.	501.369
Electric arc lamp, G. Kirkegaard.	1,080
Electric arc lamp, J. Jergie.	501.077
Electric arc lamp, C. E. Scribner.	501.077
Electric battery, J. H. Mason.	501.112
Electric bell, W. Newman.	501.242
Electric clock, W. G. G. Jones.	501.242
Electric closing device, W. Sears.	501.242
Electric contact apparatus, J. P. B. Flaks.	501.242
Electric lighting system, F. Nordmann.	501.061
Electric locomotive, W. E. C. Rustia.	501.342
Electric locomotive, E. A. Sperry.	501.342
Electric signaling, Lockwood & Larned.	501.061
Electric signal, J. A. H. Davis.	501.061
Electric snap switch, H. H. Haskins.	501.061
Electric switch, C. F. W. Hofer.	501.077
Electric switch, L. T. Stanley.	501.077
Electric switch, F. A. Thum.	501.077
Electric time switch, J. F. McLaughlin.	501.172
Equalizer for rotary current systems, P. Nord-	501.061
Equalizer for rotary current systems, P. Nord-	501.061
Elevator, safety clutch for, C. E. Albro.	501.077
Engine, rotary, H. C. Hunt.	501.103
Engine, J. H. Eickershoff.	501.242
Excavator, H. P. Eickert.	501.402
Exhaust fan, C. F. Clark.	501.402
Eyelet, A. Mathison.	501.242
Fence, J. B. Searle.	501.242
Fender wire, M. M. Shellabarger.	501.212
Fender for cars, W. J. Nunn.	501.212
Filling machines, J. J. Chavaesse.	501.061
Fibers, apparatus for treating vegetable, C. B.	501.061
Wetherwax.	501.061
Fire escape, H. H. Herberg.	501.061
Fire escape, S. D. Silver.	501.061
Fireplace grate, W. E. Fitch.	501.061

(5191) H. E. C. writes : 1. I am making commutator for a simple motor out of segments, Will iron or brass do for flanged sleeve. If not, what is best? A. Brass will do for the flanged sleeves, but copper is preferable. 2. I have made a motor with east fields and wrought iron rings for armature core; what metal most be used for mortised studs or holding brushes? A. Brass is commonly used for this purpose. 3. Is there nothing can substitute for rubber lining in plunge battery cells? A. Try coal tar pitch. 4. Will one cell start motor? A. Yes. 5. Would 10 cells with plates 8×5 have any more E. M. F. and volts than a battery of 4 or 6 cells of 6×10 ? A. The E. M. F. of the bichromate cell is about 2 volts whatever the size of the cell. Larger plates yield more current. 6. Is it necessary to solder joints in winding magnets? I filed wires and spliced and put tape around it will that do? A. It is advisable to solder all joints or

on to the light? If so, what is the effect on each battery if any? How long will each battery last? A. You can arrange storage batteries in connection with primary batteries in the manner suggested. A storage battery of good make will last almost indefinitely, and gravity cells used for charging will run a year with little attention.

(5201) H. V. H. asks: 1. Would the magnetic key described on page 478 of "Experiment in Science," and the simple polarized bell, page 488, work as well as a call for the simple telephone, page 477? Yes. 2. Would it be better or cheaper than a bell operated by a battery? The telephone line is to be about half a mile long? A. Probably it would; but we think a magneto call would be preferable to either. 3. What size of spools and wire would be required for the polarized bell? What weight of wire would be required for the telephone? The key? The bell? What should it