

NEW BOOKS AND PUBLICATIONS.

THE SENILE HEART. Its Symptoms, Sequels, and Treatment. By George William Balfour. New York and London: Macmillan & Co. 1894. Pp. 300. Price \$1.50.

Much of this work is sad reading. It describes the heart troubles, one of the great terrors of humanity. It is, of course, especially designed for physicians, but to those who are willing to investigate these ailments, and are able to do so without being frightened by possibilities of disease, it will, no doubt, be found very interesting. A full index is appended.

A TEXT BOOK ON ROADS AND PAVEMENTS. By Fred P. Spalding. New York: John Wiley & Sons. 1894. Pp. viii, 213. No index. Price \$2.

Good roads is to-day one of the subjects attracting the most widespread interest of the public. The fact is coming to be recognized that a civilized country should have the best possible roads and highways, and that the modern streets should not be disgraced by cobblestone pavements, and that the use of these inferior traction surfaces involves a great loss of energy in the conduct of everyday business. The different classes of pavements, such as macadam, asphalt, wood and stone block pavements, are all treated here in detail with numerous illustrations, and the work is in every way to be strongly recommended, except in the omission of an index.

GEOMETRY FOR GRAMMAR SCHOOLS. By E. Hunt. Boston, U. S. A.: D. C. Heath & Co. 1894. Pp. iv, 99. Price 25 cents.

SCIENTIFIC AMERICAN BUILDING EDITION.

OCTOBER, 1894.—(No. 108.)

TABLE OF CONTENTS.

- 1. Elegant plate in colors showing a Colonial residence at Plainfield, N. J., recently erected for B. A. Hegeman, Jr. Two perspective elevations and floor plans, also an interior view. Cost \$6,000. A picturesque design. Mr. Frank W. Beall, architect, New York City.
2. Plate in colors showing a very attractive stone dwelling recently erected for H. J. Peet, Esq., at Buena Park, Ill. Two perspective elevations and floor plans. A pleasing design. Mr. J. L. Silsby, architect, Chicago, Ill.
3. A dwelling at Bridgeport, Conn., recently erected for Frank Fowler, Esq. Two perspective elevations and floor plans. Cost complete \$5,600. Mr. A. H. Beers, architect, Bridgeport, Conn.
4. A cottage at Stratford, Conn., recently completed for Robert Wheeler, Esq. Perspective elevation and floor plan. A unique design presenting pleasing elevations and a well arranged plan. Cost \$6,200 complete. Mr. Edgar Osborne, builder, Stratford, Conn.
5. The residence at Belle Haven, Conn., recently completed for J. E. Kent, Esq. An attractive design in the modern Colonial style. Two perspective elevations and floor plans. Cost \$6,850 complete. Messrs. Rossiter & Wright, architects, New York City.
6. A Colonial double house recently completed at Bayonne City, N. J. Perspective elevation and floor plans. Cost \$4,800. Mr. Arthur C. Longyear, architect, New York City.
7. A dwelling at Bensonhurst, L. I., recently erected for John P. Jenson, Esq. An excellent example for a suburban home. Two perspective elevations and floor plans. Cost \$5,620 complete, ready for occupancy. Mr. William H. Mersereau, architect, New York City.
8. A dwelling at Flatbush, L. I., recently completed for Richard Ficken, Esq. A design in the Colonial style. Two perspective elevations and floor plans. Messrs. J. C. Cady & Co., architects, New York City.
9. A small Colonial cottage at Bayonne City, N. J. Perspective elevation and floor plan. Cost complete, \$2,800. Mr. Arthur C. Longyear, architect, New York City.
10. A residence at Pompton, N. J., built for Wm. F. Hall, Esq. Cost, \$7,500. A good example of an all-the-year-round residence.
11. The new Protestant Cathedral at Berlin, Germany, costing \$2,400,000. Designed by Prof. Julius Raschdorf.
12. Roman remains at Bath, England.
13. The Temple of Neptune at Paestum.
14. Miscellaneous Contents: Mahogany pavement.—Proportion in architecture.—The architect who never exceeded estimates.—Some differences between the English and American plumbers.—Decay of stone.—Wood water main.—Artificial marble.—Art mouldings, illustrated.—Snow guards for roofs, etc., illustrated.—Double tenoning machinery.—Transparent bricks for hothouses.—The Capital heater, illustrated.—The Popper patent improved weight sliding blinds, illustrated.—The new decoration in the apse of St. Paul's.—Preparing walls for papering.—An improved carpenter's clamp, illustrated.—An improved sanitary appliance, illustrated.—Hughes' improved drawing table, illustrated.—Helping the deaf to hear, illustrated.

The Scientific American Architects and Builders Edition is issued monthly. \$2.50 a year. Single copies, 25 cents. Forty large quarto pages, equal to about two hundred ordinary book pages; forming, practically, a large and splendid MAGAZINE OF ARCHITECTURE, richly adorned with elegant plates in colors and with fine engravings, illustrating the most interesting examples of Modern Architectural Construction and allied subjects.

The Fullness, Richness, Cheapness, and Convenience of this work have won for it the LARGEST CIRCULATION of any Architectural Publication in the world. Sold by all newsdealers. MUNN & CO., PUBLISHERS, 361 Broadway, New York.

Business and Personal.

The charge for insertion under this head is One Dollar a line for each insertion; about eight words to a line. Advertisements must be received at publication office as early as Thursday morning to appear in the following week's issue.

"C. S." metal polish. Indianapolis. Samples free. Ill. catalog tools, 15c. Frasse, 19 Warren St., N. Y. Heading machinery. Trevor Mfg. Co., Lockport, N. Y. We make absolutely a perfect loose pulley oiler. Kridler Mfg. Co., Grand Rapids, Mich. Send for circular. Screw machines, milling machines, and drill presses. The Garvin Mach. Co., Laibst and Canal Sts., New York. Universal drawing tables and steel ribbed drawing boards. Just out. Morse Machine Co., Rochester, N. Y. Centrifugal Pumps for paper and pulp mills. Irrigating and sand pumping plants. Irvin Van Wie, Syracuse, N. Y.

Books. Illustrated descriptive catalogue mailed for 5 cents. Civil, mechanical, electrical, manufacturing industries. Spon & Chamberlain, 12 Cortlandt St., N. Y. The best book for electricians and beginners in electricity is "Experimental Science," by Geo. M. Hopkins. By mail, \$4; Munn & Co., publishers, 361 Broadway, N. Y. Competent persons who desire agencies for a new popular book, of ready sale, with handsome profit, may apply to Munn & Co., Scientific American office, 361 Broadway, New York.

Live Patents for Sale.—A series of valuable patents, forming the basis of an extensive business, capable of great enlargement without any very heavy investment of capital, is offered for sale on page 287. The patents cover practical mechanical ideas, in the substitution of simple devices for the hitherto indispensable electric call bells, so liable to fail, when not carefully attended to, from the giving out of batteries, impairment or crossing of conductors, etc. An improved bicycle bell and ingenious portable table bell, of exquisite design, are also included in the list. The patents are offered for sale on account of the precarious health of the inventor. The articles are already popular and the percentage of profit is large.

Notes & Queries

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. References 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 endeavor to reply to all either by letter or in this department, each must take his turn. Buyers wishing to purchase any article not advertised 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 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 price. Minerals sent for examination should be distinctly marked or labeled.

(6282) G. C. asks: 1. What is the best constant current medical battery for burning out hairs, lighting a small lamp, etc.? A. Probably a storage battery is the best. For constant current a Daniell combination is good, but it is of high resistance and is not adapted to open circuit work. A Grenet or plunger battery is about the best primary battery for your work. Keep the zinc thoroughly amalgamated. 2. We have a battery of 12 cells made with a stick of carbon, a strip of zinc wrapped with cloth (to act as porous pot) and surrounded with broken gas coke. Would nitrate of silver in distilled water form a good working solution that would last and not polarize? A. No. It would be very expensive and would quickly polarize. 3. Can you mention a good work giving lots of information on primary batteries? A. We can supply you with the following books relating to the subject you refer to: Carhart's "Primary Batteries," price \$1.50; Niblett's "Elementary Treatise on Electric Batteries," price \$2.50. 4. Can you suggest a good solution for our battery, as sal-ammoniac does not answer? A. Try a mixture of 1 part nitrate of mercury and 2 parts sal-ammoniac with water.

(6283) H. E. writes: Why is it necessary to use such powerful engines to run dynamos? I cannot see why they should offer any great resistance, other than that caused by their great weight. A. A dynamo converts mechanical energy into electric energy. This it does by the forcing of the armature coils through a magnetic field. The resistance to its motion is almost identical with that offered by an armature of a magnet when drawn away from the pole of a magnet. The weight produces no resistance except as it increases journal friction.

(6284) F. G. C. writes: I have a telephone wire stretching from a pole to the house, a distance of 40 feet perhaps. It hums a great deal, and particularly at night and in cold weather. I have put an appliance called an anti-hummer or anti-singer at the house end of the line, but it does no good. Could you tell me, if I also put another anti-singer at the pole end, if it would help it? Also, what is the reason it sings in the night time? A. Try changing the tension of the wire. An intermediate insulator placed to one side of the center of the wire might answer. It hums when its natural period coincides in some way with the wind actuating it. The extra anti-hummer would probably improve it.

Communications Received.

"On Concrete Construction." By E. L. R.

TO INVENTORS.

An experience of nearly fifty years, and the preparation of more than one hundred thousand applications for patents at home and abroad, enable us to understand the laws and practice on both continents, and to possess unequalled facilities for procuring patents everywhere. A synopsis of the patent laws of the United States and all foreign countries may be had on application, and persons contemplating the securing of patents, either at home or abroad, are invited to write to this office for prices which are low, in accordance with the times and our extensive facilities for conducting the business. Address MUNN & CO., office SCIENTIFIC AMERICAN, 361 Broadway, New York.

INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

October 23, 1894,

AND EACH BEARING THAT DATE.

(See note at end of list about copies of these patents.)

- Adjustable bracket for shade or other rollers, J. A. Dwyer 527,951
Air brake coupling, automatic, W. M. Edwards 527,838
Air purifier, return, J. Warrington 527,910
Air sieve, purifier and dust collector, combined return, A. C. Brantingham 527,938
Alarm, burglar 527,847
Aluminum machine, Cooch & Waldo 527,846
Annunciator signal, I. H. Farnham 527,839
Axle box, locomotive, M. N. Forney 527,900
Bailing device, J. Fatkin 528,085
Bale box clamp, T. M. Wallace 528,047
Basket, fruit, Assam & Muehlenbeck 527,802
Batteries, manufacturing elements or plates for secondary, Kirkpatrick-Picard & Thame 527,861
Batteries, See Electric uterine battery.
Bed, folding, C. E. Brainerd 527,872
Belt, electric, Backstrom & Johnson 527,922
Bicycle frame, G. F. Washburn (r) 11,449
Bicycle sled, L. Thanner 527,903
Bicycle stand, F. H. Pierce 528,028
Book stopper, B. Rubenstein 527,770
Billiard cue chaulker, F. G. Chess 527,770
Blacking machine, automatic electrical boot, J. O. Heinze, Jr. 527,977
Blacking machine, boot, J. B. Sweetland 527,900
Block, See Paving block.
Boiler, See Steam boiler.
Boiler, C. Hyde 528,103
Boiler tube joint, sectional, N. W. Pratt 527,883
Bone cutting machine, A. H. Chapman 527,769
Book rack, sample, J. Reading 527,809
Book support, G. Strike 527,897
Bottles, device for preventing refilling of, Davis, Leach & Leach 527,777
Bottles, device for preventing refilling of, F. W. Johnson 527,992
Box, See Coal box. Letter box. Toy money box.
Box wiring machine, J. Weber 527,913
Bracket, See Adjustable bracket. Car door bracket.
Brake, See Car brake.
Brake, C. C. Onsgard 528,019
Brake shoe clamp, F. H. Kilmaman 527,892
Brick kiln, G. S. Wright 527,822
Brooder, chicken, F. J. Wiskand 528,008
Buckle, J. F. Molloy 528,024
Buffing pad holder, A. E. Perry 528,872
Buggy top support, A. N. Rooks 527,862
Bunk making machine, E. R. Elder 527,862
Car, See Automobile.
Carriage, F. N. Vanier 527,909
Cartridge loading machines, revolving crimper for, C. S. Hisey 528,038
Cartridge loading machines, shell carrier actuating mechanism for, C. S. Hisey 528,094
Cartridge loading machines, shell carrier for, C. S. Hisey 527,983
Cartridge loading machines, shell feeding mechanism for, C. S. Hisey 528,095
Cartridge loading machines, shell placer for, C. S. Hisey 528,096
Case, See Composition case. Spectacle case.
Cash controlling machine, A. Quortrup 527,909
Casting sash weights, device for, A. S. Hodges 527,994
Castings, chiller for making chilled, H. Schon 528,034
Cathode for electrolytic process and making same, E. Stouls 528,042
Centrifugal separator, H. F. M. Kayser 527,863
Chain machine, B. L. Colvin 528,076
Cheese press, C. J. Landstrom 528,001
Churn, J. A. Crim 528,079
Churn, Leonard & Bever 528,001
Churn, M. G. Montgomery 528,183
Churn, C. M. Roark 528,430
Cigar vending machine, coin operated, H. L. Kirtley 527,995
Clamp, See Bale box clamp. Brake shoe clamp. Floor clamp.
Clamp book adjustable, J. A. P. Berg 527,763
Clasp, See Garment clasp.
Cleaner, See Flue cleaner. Tube or flue cleaner.
Clevis, A. Moranfield 528,009
Clock, self-winding electric, E. G. Hammer 527,799
Closet seat, W. G. Vollmer 527,870
Clothes, See Drying.
Clothespin, W. D. Watkins 527,811
Clutch coupling, McGee & McCarty 528,012
Coal box, portable, Buekenhofer & Weiss 528,072
Coal drill, P. Sauer 527,814
Coin-controlled machine, Richardson 527,936
Composition case, R. W. Nelson 528,186
Coop, folding chicken, C. B. Proctor 527,907
Cord, flexible, R. Kelso 527,735
Cork cutting machinery, J. Lowman 527,865
Corn cutter and dropper, J. Stewart, Jr. 528,041
Corset, J. Andre 528,064
Corset, abdominal, T. Gilbert 527,966
Coupling, See Air brake coupling. Car Coupling. Clutch coupling. Hose coupling.
Cradle, child's, W. E. Phillips 528,026
Current motor, alternating, C. T. Child 528,121
Currycomb, R. W. Harsh 527,973
Curtain, A. M. Brunsaw 528,071
Cutter, See Corn cutter. Meat cutter.
Dental plate blank, rubber, J. Spyer 527,817
Desk or stationary implement, T. D. Ingram 527,859
Dial sinking machine, G. E. Hunter 527,988
Digger, See Potato digger.
Display cabinet, ribbon, Schoolhouse 528,035
Door check, H. Y. Wertberger 528,049
Door check, J. Wolf 527,919
Door check and buffer, combined, J. P. Neely 528,017
Door lock, sliding, Loewer & Steiner 527,797
Dressing machine, L. W. Byrmond 528,023
Drier, See Clothes drier.
Drill, See Coal drill.
Drilling machine, C. A. Bentrup 527,929
Duplex burner, T. P. Evans 527,967
Dust collector, A. C. Brantingham 527,935
Dynamo, metal brush for, W. Vom Braucke 527,940
Educational appliance, L. W. Musser 528,010
Electric lighting system, G. J. & G. J. T. J. Parfitt 528,021
Electric motor, dynamo, C. F. Daniels 527,776
Electric switch, J. F. McLaughlin 528,014
Electric uterine battery, C. E. Hebard 527,788
Electrotype matrices, machine for blackleading, O. B. Beach 527,827
Elevator, See Water elevator.
Elevator control, L. W. Southgate 527,896
Engine, See Gas engine. Motor engine. Paper pulp beating engine. Rotary engine.
Envelope, R. L. Dow 527,948
Exhibitor, coin-controlled, C. W. DeKnight 528,084
Extractor, See Stopper extractor.
Face, C. P. N. 528,070
Fence, J. Donnell 527,780
Fence, portable, W. M. Cook 527,773
Fence, wire, H. C. Pratt 528,108
Fertilizers, making, E. Records 527,810
File case, D. A. Drake 527,949
Filter, W. B. Lindsay et al. 528,104

- Firearms, magazine for breech-loading, P. Mauer 527,869
Flexible tire, S. Elliott 527,782
Floor clamp, M. Schlatter 528,033
Flue cleaner, W. Jess 528,132
Fluid, apparatus for intensifying the pressure of compressed, C. P. Higgins 527,981
Fruit holder, T. Leach for sorting or grading, F. N. Ellithorpe 527,953
Frying pan handle rest, C. C. Hoyer 528,100
Furnace, See Ore roasting furnace. Smoke preventing furnace.
Furnace, method of and apparatus for extracting metal from iron blast, J. Gayley 527,844
Garbage, treating, W. MacDonald 528,002
Garment clasp, D. Roth 527,887
Gas engine, F. S. Mead 528,006
Gas engine, H. B. Miglavaca 528,105
Gas, process of and apparatus for making, Hocker & Rowland 527,789
Gas, rotary apparatus for generation of chlorine, J. W. Sutton 527,899
Gear cutting machine, T. O. Perry 528,025
Glass articles, manufacture of hollow, Croskey & Locke 528,061
Glass mould, Mompser & Slaw 527,801
Glass press, Croskey & Locke 528,080
Gd from its ore, extracting, Pelatan & Clerici 528,112
Gong, J. Redding 528,048
Grain tempering machine, G. T. Thompson 528,048
Grate, brick, E. A. Dyer 527,778
Grater, nutmeg, W. Dunlap 527,934
Grinding mill, C. C. Howe 527,986
Gun, igniting spring, Wiebach & Koellhoffer 527,916
Hair brushing machine, rotary, I. M. Tintore 528,094
Hanger, See Picture hanger.
Harness, H. A. Kennedy 527,904
Harness, J. A. Thompson 527,904
Harrow, P. J. Heller 527,978
Harrow, W. A. O. Jones 527,993
Harrow, F. Nishwitz 527,875
Heater, See Hot water heater.
Heating and ventilating apparatus, building, A. McFadyen 527,804
Heating apparatus, hot water, S. J. Anderson 528,061
Hinge, gate, G. M. Bowen 527,765
Hinge, strap, W. H. Hart 527,975
Hoisting machinery, etc., hydraulic, H. W. Unney 527,908
Hook, See Clamp hook.
Hook, C. Crowther 527,832
Hoop making machine, D. C. Putnam 527,884
Hose coupling, Biche & O'Neill 528,061
Hose coupling, S. F. Whelan 528,061
Hot water, See Heating apparatus.
House, movable, J. F. Rothwell 528,131
Hub blank making machine, W. W. Tucker 527,907
Ice cutting machine, W. Butts 528,073
Ironing machine, H. F. Gray 528,091
Jack, See Lifting jack.
Joint, See Bolt joint.
Journals of mixing machines, device for preventing leakage about, F. Westernan 528,050
Kiln, See Brick kiln.
Knitting machine, W. R. Dillmore 527,779
Knitting machine, warp, J. Bradley 527,884
Ladder and truck, extension fire, A. B. Cairnes 527,942
Ladder apparatus, fire, W. J. Horton 528,132
Lamp and socket, combined regulating incandescent, C. A. Hussey 527,989
Lamp, electric arc, S. Bergmann 528,119
Lamp, electric arc, H. O. Swoboda 527,901
Lamp shade protector, G. Reichman 528,029
Lamps, carbon holder for arc, E. Lavens 527,864
Latch lock, B. D. Coppage 527,944
Lathing, metallic, G. Hayes (r) 11,448
Leaching apparatus, F. B. Strung 527,819
Lead battery produced by electrolysis, treating, A. B. Brown 527,830
Leaf turner, H. Kramer 527,997
Lenses to elevator doors, etc., holder for attaching, C. W. Mark 528,003
Letter box, C. W. Martin 527,799
Level attaching, J. Schell 527,818
Lifting jack, A. L. Stamford 527,818
Lock, See Door lock. Latch lock.
Lock, J. Schade 528,114
Locomotive, C. A. Couch 528,078
Loom picker motion, E. Guilbert 527,853
Loom positive shuttle motion, E. H. Grabau 527,783
Magnetic separator, W. H. Williams 528,054
Mail bags to or from trains in motion, apparatus for delivering, E. Davies 528,083
Marbles, manufacturing artificial, F. Grand'Montagne 527,969
Meat cutter, G. & E. D. Ashley 527,921
Meter, Henley & Fulgham 527,979
Milk machine, cow, E. Smart 527,893
Mill, See Feed mill. Grinding mill. Olive mill. Windmill.
Mill roll feeder, G. W. Combs 528,077
Mining machine, J. Henwood 527,971
Mould, See Glass mould.
Mould for making washers and tacks for plumbers' use, Black & Hill 527,831
Money drawer, safety, M. R. Daley 528,082
Motor, See Car motor. Current motor. Electric motor.
Motor engine, gas, oil, or similar, Andrew & Bellamy 528,063
Motor engine, gas or oil, H. Schumm 528,116
Music machine for making perforated sheet, W. E. Griggs 527,811
Musical instrument damper, A. Richter 527,811
Musical instrument tuning key, A. McKenzie 528,013
Olive mill, Toulouse & Delorieux 527,905
Ore roasting furnace, P. Naef 528,016
Oven, baker's, A. P. Simpkins 527,824
Oven, portable, I. Stripe 527,898
Oven, rotary, C. J. Bloom 528,069
Paddlewheel, feathering, J. Jacobs 527,991
Pail, milk, R. Campbell 527,768
Panoramic camera, M. Flammang 527,841
Paper boarder, M. A. Colquhoun, C. W. Gay 527,865
Paper pulp beating engine, J. D. Pickles 527,827
Paving block, G. Bagge 527,923
Pea sheller, J. H. Empson 527,954
Pea shelling machine, J. H. Empson 527,956
Pea shelling machine, E. Brown & McDonald 527,891
Pencil sharpener, J. McCollum 527,803
Pick or similar tool, W. K. Birkinshaw 527,829
Picture hanger, W. S. Jaeger 527,793
Pinking machine, C. H. Bayley 527,928
Pipe bender, T. Seaton, Sr. 528,036
Pipe connection, E. B. Vaynor 528,045
Pipe covering and manufacturing same, C. B. Manville 527,867
Pipe wrench, J. D. Wilson 527,917
Plane, bench or other, T. W. Fuller 528,097
Planter, Specht & Armand 527,816
Planter, 4777, J. Wood 527,832
Planter, corn, F. L. Block 527,802
Plow, H. Oldendorph 528,107
Flow riding attachment, J. Kleibauer, Jr. 527,960
Pneumatic shears, C. O. Heggen 527,930
Polishing and staining machine, L. & A. Schmolli 527,889
Potato digger, M. A. Colquhoun, E. H. Colquhoun 527,865
Powder or shot feeding mechanism, C. S. Hisey 528,097
Press, See Cheese press. Glass press.
Pressure regulator, W. G. Taafel 527,902
Printing machine, cylinder, J. Brooks 527,941
Printing machine, cylinder, C. Foster, Jr. 527,880
Printing machine, offset mechanism, E. H. Cottrell 527,774
Printing press web supporting device, C. Potter 527,878
Printing presses, two-color attachment for, C. E. Adamson 528,080
Propulsion, auxiliary signaling system for, M. S. Only 528,122
Pulley and building same, wood, H. J. Gilbert 527,965
Pulp, method of and apparatus for producing wood, C. W. Roberts 527,812
Pump, spraying, C. H. James 527,794
Punching machine and stripper therefor, F. Sotter 528,039
Purifier, separator, and grader, D. J. Davidson 527,835
Puzzle, A. W. Bartholomew 527,925
Rack, See Book rack.
Radiator, C. Zitko 528,058
Rail bond, W. A. Gratten 527,785
Railway chair, M. A. Barstow 527,874
Railway, closed conduit electric, J. F. McLaughlin 527,874
Railways, auxiliary signaling system for, M. S. Only 528,122
Railways, transformer system for electric, Hutin & Leblanc 527,851
Refrigerating apparatus, Carleton & Odell 527,831
Regulator, See Pressure regulator.
Rem holder, overlock, C. L. Leonard 527,906
Remedies, preparing topical, O. Tropilowitz 528,118
Riveting, dolly bar for, N. D. Yant 528,037
Roller mill feed device, J. Seibert 528,037
Rotary engine, T. B. Boyle 527,933
Roundabout, H. D. Gady 527,932
Rugs, etc., apparatus for making, R. J. Grubb 527,971