### ENGINEERING INVENTION.

A system and apparatus for heating and lighting cars has been patented by Mr. George Smith, of Rochester, N. Y. A compressed air reservoir is connected with a naphtha tank, a pipe from which leads to the heater and lamps for supplying carbureted air, while there is an automatic cut-off by which the Mr. Terence F. Curley, of Brooklyn, N. Y. It consists supply of gas is cut off to prevent danger from fire in of a handled plate having unsharpened edges, one or

#### AGRICULTURAL INVENTIONS.

A corn harvesting and husking machine has been patented by Mr. John A. Hilbert, of Carroll Iowa. This invention covers an improvement on a former patented invention of the same inventor, the machine cutting the stalks, separating the ears and husking them, and delivering them to a wagon traveling with the machine, while the stalks are placed in a row or a pile on the ground.

A mower has been patented by Messrs. Robley D. Hoke and Isaac A. Harris, of Wessington Dakota Ter. It has an improved driving mechanism, and an adjusting mechanism designed to drive the sickle bar with a sufficient number of strokes to secure a perfect cut of the grain in proportion to the advance of the machine, the machine also having a simple and practical means of adjusting the shoe of the sickle bar

### MISCELLANEOUS INVENTIONS.

A button has been patented by Mr. Charles A. Peirce, of Dover, N. J. It is a collar button having attached means for securing and engaging the necktie, and consists in a hinged pointed pin combined with a collar button.

A shoe fastening has been patented by Mr. George H. Coursen, of Baltimore, Md. It is made of a sheet metal strip, bent, and closed for attachment to a shoe or other article of wear to make an eye-like fastening, adapted to receive a lacing cord or shoe string freely through it.

A cement has been patented by Mr. Isaac C. Hatch, of Santa Cruz, Cal. It is made of stated proportions of lime, sand, coralline, and sugar, finely ground and thoroughly mixed, and is said to be particularly well adapted for building heavy walls of

A stove has been patented by Mr. Hans Lindas, of Stoughton, Wis. This invention relates to parlor stoves adapted for heating separate rooms, and wherein provision is made for cooking or baking, and is designed to afford an improved construction in which the smoke is utilized as a heating factor.

A commode has been patented by Mr. William R. Wythe, of Santa Barbara, Cal. This invention covers a novel construction, combination, and arrangement of parts, constituting a commode easily discharged of its contents, not liable to become offensive. and which is protected against freezing.

A coffee pot has been patented by Mr. 15. William Racer, of Harrison, Ark. A funnel with cylindrical lower end and strainer in its bottom is sup16. Engraving of the new U. S. Court House and Post ported inside the pot, in combination with an interior perforated cylinder, holding the ground coffee, affording a pot specially designed for making coffee by per-

An ore jigger has been patented by Mesers, William B. Hodgson and Truman C. Safford, of Lyon Mountain, N. Y. This invention covers an improved screen to facilitate the sizing of wet and dry ores, the screen being convex or conical, and supported directly over the upper end of a hopper by a vertical shaft revolving in the casing.

A rowing apparatus has been patented by Mr. Robert Masay, of Nashville, Tenn. Combined with a frame or support are pivoted bearer plates to which oars are held, the frame having a sliding bar and means for locking the parts in position, with other novel features, whereby boats may be propelled and steered without directly handling the oars

A cut-out for electric light circuits has been patented by Mr. Charles D. Wright, of Petersburg, Ill. It is designed to throw a suitable amount of resistance into the circuit when the current therein becomes abnormal, and before the regulating devices connected with the dynamo can act, thereby avoiding the burning out of the armature of the machine.

A composition for roadways has been patented by Mr. Louis N. Beauchemin, of Hancock, Mich. It is intended for use as a top layer or facing upon other layers of other materials, and is made of specified proportions of black pitch, coal tar, resin copper moulding, stamp sand, and other materials, compounded and applied as described.

A combined school seat and desk has been patented by Mr. Albert Landon, of Rutland, Vt The seat is located in front of the desk, which forms a back for the seat, the seat being adapted to fold up beneath the desk and behind its back, the seat being easily adjustable in and out of position to afford a passageway between rows of desks.

A hand punch has been patented by Mr. William Yates, of New York City. It is for can celing, numbering, dating, or otherwise marking railway tickets, etc., and the invention covers novel features of construction and arrangement of parts, whereby a great variety of combinations for marking and punching may be effected.

A combined freight bucket and truck has been patented by Mr. Louis A. De Mayo, of Jersey City, N. J. This invention provides a novel construction whereby freight may be conveniently carried from one portion of a warehouse to another, wheeled along a dock, or be hoisted from floor to floor, etc., or may be readily dumped from the bucket without moving or

A tool post ring has been patented by Mr. William S. Cobb, of Philadelphia, Pa. The in-

vention consists in a series of three inclined face rings or plates fitted around the tool post and on to the tool block and on each other, and relatively adjusted to give the required set of the tool, making an attachment to tool posts or holders of lathes or shaping machines.

A nail cutter has been patented by both of which are provided with a V-shaped notch, the plate being sharpened at the sides of the notch to adapt it for cutting the ends of the nails, and so the nails may be trimmed without danger of cutting the flesh.

A lemon juice extractor has been patented by Mr. John L. Easley, of New York City. It with patents, trade-marks, etc.; 50,000 in use; large dehas a rotary frame with vertical curved arms or ribs be-mand for extras; established 30 years. Complete plant tween which a lemon may be wedged, with openings by which the skin may be dislodged, and other novel features, whereby the juice extracted will be free from the oil of the skin, and the pulp and seeds will be caught without impeding the flow of the juice.

# SCIENTIFIC AMERICAN

# BUILDING EDITION.

JULY NUMBER.-(No. 33.)

TABLE OF CONTENTS.

- 1. Elegant plate in colors of a cottage of moderate cost, with floor plans, details, etc.
- 2. Plate in colors, with floor plans, details, etc., for a suburban dwelling. Cost, six thousand dollars.
- 3. Floor plans and perspective view of a suburban cottage erected at Fordham Heights, New York City. Cost, five thousand dollars
- Queen Anne, lately erected at Asbury Park, N. J. Cost, complete, fourteen hundred dollars. Per spective and floor plans.
- 5. Design and floor plans for a carriage house and
- 6. Perspective of an attractive cottage at Jekyl Island, Ga.
- Design for a small cottage costing two thousand dollars. Perspective elevations and floor plans.
- 8. A church at Nashville, Tenn.
- 9. Illustration of the Chapel of Pocito, Mexico.
- 10. Lich gate or cemetery entrance.
- 11. Page of engravings showing some attractive dwellings in Connecticut.
- An attractive cottage lately erected at Asbury Park, N. J., at a cost of eighteen hundred and fifty dollars, complete. Plans and perspective.
- A row of twelve hundred dollar houses lately erected at Kingsbridge, New York City. Plans and perspective.
- 14. Illustration of U.S. Court House and Post Office. Troy, N. Y.
- Design for the new U.S. Court House and Post Office at Williamsport, Pa.
- Office, Chattanooga, Tenn.
- 17. View of the oldest cottage at Asbury Park, N. J. 18. Plans and perspective view of a cozy little seashore cottage lately built at Ocean Grove, N. J. Cost four hundred dollars.
- A modern house built at Asbury Park, N. J., at a cost of two thousand dollars. Plans and perspective.
- 20. Illustration of the new U. S. Court House and Post Office at Oshkosh, Wis.
- Perspective and floor plans for a pleasant cottage to cost from eighteen hundred to two thousand
- A cottage lately built on Monroe Av., Asbury Park, N. J., for one thousand and fifty dollars. Plans and perspective.
- 23. Perspective view of a design for a museum, Pelz and Griebel, architects. Full page engraving.
- 24. Miscellaneous contents: Riche's pantograph, illustrated.-Areas of different parks.-Paint work.-Sawdust.—The chimney shaft.—The age of stars. -Wood that will not blaze.-Bricks of blown glass,-Turning and polishing marble,-Decorative joinery .- Villas and their doorways .- The law of trespass.—Water for household use.—Hydraulic mortars and cements .- The Durango tunnel .- Slate bricks.—Houses in Seville,—Shells as a decorative element.-Ancient and modern mortars.-Treat ment of hardwood floors,-A selection of lilies.-Undesirable town houses.—Richmond's Victor steam heater, illustrated.—Cheap buildings in China,-Improved fans, ventilators, etc., for buildings and for mechanical uses, illustrated.—An economical steam and hot water heating boiler, illustrated.—An improved dumb waiter, illustrated.—A Domestic conveniences possible with a hand force pump, illustrated.-New variety moulder and shaper, illustrated.-How to fit up a recess.-The Boynton furnaces, ranges, and heaters, illustrated.-Cook's new extension beam trammels 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 ARCHITEC-TURE, richly adorned with elegant plates in colors and with fine engravings, illustrating the most interesting examples of Modern Architectural Construction and

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 next issue.

Wanted-A thoroughly competent vinegar manufacturer. Address (giving particulars as to ability and experience), The Hamilton Vinegar Works Co., Limited, Hamilton, Ontario.

Valuable Manufacturing Business for sale. Wilson Bros. & Co. Telegraph Feed Cutters and Cider Mills, mand for extras; established 30 years. Complete plant for these specialties and general manufacturing business; large foundry. Business, with exclusive rights and patterns, can be bought separate from plant. Commonwealth Trust Co., Harrisburg, Pa.

For the latest improved diamond prospecting drills, address the M. C. Bullock Mfg. Co., 138 Jackson St., Chicago, Ill. Cable address: Bullock, Chicago,

The best Coffee roasters, coolers, stoners, separators, polishers, scourers, glossing apparatus, milling and peaberry machines: also rice and macaroni machinery, are built by The Hungerford Co., 69 Cortlandt Street,

Safety water columns. Cheaper than explosions or burned boilers. For illustrated price list, Reliance Gauge Co., Cleveland, O.

Steam Pipe Covering, Sectional and Plastic. Write for Pamphlet. Jno. A. McConnell & Co., 69 Water St., Pittsburgh, Pa.

The Diamond Prospecting Co., 74 and 76 W. Lake St., Chicago, Ili., general agents for the Sullivan diamond prospecting drills.

Nickel Plating .- Manufacturers of pure nickel an odes, pure nickel salts, polishing compositions, etc. \$100 "Lattle Wonder." A perfect Electro Plating Machine.

Agents of the new Dip Lacquer Kristaline. Complete outsit for plating, etc. Hanson, Van Winkle & Co., Newark, N. J., and 92 and 94 Liberty St., New York,

Perforated metals of all kinds for all purposes. The Robert Aitchis on Perforated Metal Co., Chicago, Ill.

The Railroad Gazette, handsomely illustrated, pubweekly, at 73 Broadway, New copies free. Send for catalogue of railroad books.

The Knowles Steam Pump Works, 113 Federal St., Boston, and 93 Liberty St., New York, have just issued a new catalogue, in which are many new and improved forms of Pumping Machinery of the single and duplex, steam and power type. This catalogue will be mailed free of charge on application.

Link Belting and Wheels. Link Belt M. Co., Chicago, Iron Planer, Lathe, Drill, and other machine tools of modern design. New Haven Mfg. Co., New Haven, Conn. Presses & Dies. Ferracute Mach. Co., Bridgeton, N. J

The Holly Manufacturing Co., of Lockport, N. Y., will send their pamphlet, describing water works ma-chinery, and containing reports of tests, on application.

Lockwood's Dictionary of Terms used in the practice of Mechanical Engineering, embracing those current in the drawing office, pattern shop, foundry, fitting, turning, smith's and boiler shop, etc., comprising over 6,000 definitions. Edited by a foreman patternmaker. 1888 Price, \$3.00. For sale by Munn & Co., 361 Broadway, New

C. E. Billings' Patent Cutting-off Tools, 7 different blades. Billings & Spencer Co., Hartford, Conn.

We are sole manufacturers of the Fibrous Asbestos Removable Pipe and Boiler Coverings. We make pure as bestos goods of all kinds. The Chalmers-Spence Co., 419 and 425 East 8th Street, New York.

The Improved Hydraulic Jacks, Punches, and Tube Expanders. R. Dudgeon, 24 Columbia St., New York.

Friction Clutch Pulleys. The D. Frisbie Co., N.Y. city. Tight and Slack Barrel Machinery a specialty. John Greenwood & Co., Rochester, N.Y. See illus. adv., p. 28. Rotary veneer basket and fruit package machinery.

I. E. Merritt Co., Lockport, N. Y. For Steam Heating-the Dunning Patent Wrough Over 13,500 in use. Manufactured by New

York Central Iron Works, Geneva, N. Y., U. S. A. Rollstone variety lathe-bores, beads, and turns at the same time. Rolls tone Machine Co., Fitchburg, Mass,

No. 11 planer and matcher. All kinds of woodworking machinery. C. B. Rogers & Co., Norwich, Conn.

Send for new and complete catalogue of Scientific and other Books for sale by Munn & Co., 361 Broadway, New York. Free on application.

## NEW BOOKS AND PUBLICATIONS.

ELECTRICAL INSTRUMENT MAKING FOR AMATEURS. By S. R. Bottone. London: Whittaker & Co.; and New York: D. Van Nostrand & Co. 1888. Pp. 183. Price \$1.20.

This new edition, enlarged by a chapter treating o brings this convenient manual up to date. The de scription of the pocket accumulator, practical notes on electro-magnets, etc., are most acceptable. We have already noticed in these columns the first edition. We can only add that we consider it a good augury that a second edition has so soon been called for.

MANAGEMENT OF ACCUMULATORS AND PRIVATE ELECTRIC LIGHT INSTAL LATIONS. By Sir David Salomons, Bart., M.A., A.I.C.E. London: Whittaker & Co. New York: D. Van Nostrand & Co. 1888. Pp. 176. Price \$1.20.

The results of the experience of this distinguished electrician, one who has made the study of electric lighting and home appliances a true labor of love, are in this volume given freely to the public. The work purports to be and is a practical one. No obnoxious quantity of theories and formulas encumber its pages, but what to the practical man is the real meat of the question is given by itself. It is well illustrated, and should be in the hands of every one interested in the Coupling. See Car coupling. Pipe coupling. Thill subject of small electric plants.

coupling.

### INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

July 10, 1888,

### AND EACH BEARING THAT DATE.

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

١.		
• ! t	Acetone, manufacture of, G. Rumpf	385,777 386,028
- '	Alarm. See Burglar alarm.	
8 - ;	Album, photograph, H. Boussemaere	
	Alloy of copper, nickel, and gold, D. H. Church	
,	Animal trap, L. Beversdorf, Jr	386,009
١.	Annunciator, electrical, M. M. Wood	
,	Paimer	386,025
1	Axle, vehicle, E. Firth	
	Ball curver, base McKenna & Baker	385,816
	Battery. See Electric battery.	
r e	Bed, folding, F. H. Walker	395,736 386.022
	Beer cooler, A. Aufrichtig	385,986
•	Bellows, valve for, J. H. Chase	
٠	Belting, J. B. Forsyth	
.	Bit, countersink, and screwdriver, combined, F.	
i	B. Carpenter	
	Blinds, etc., cord holder for holding the cords of, E. Tonks	
0 1	Blowpipe flames, saturator for the production of	
. !	vapor, F. E. Ives Board. See Drawing board. Multiple switch	
	board.	
-	Board of composite material, A. Mack Boat. See Life-saving buoy boat,	386,102
e 	Boat detaching apparatus, A. McCrackin	385,866
.	Boiler. See Locomotive boiler. Boiler, C. Wheat	
۱ ا	Boiler feeder, J. E. Winder	
l	Boot, button, F. J. Hastings	386,069
.	Boots or shoes, manufacture of counter stiffeners for, P. Cox	385,746
- i	Bottle closure, W. Edmundson Bottling apparatus, S. Bunting	
•	Box. See Blacking box. File box. Sluice box.	
٠.	Tobacco box. Box, J. D. Gris wold	
f	Boxes, manufacturing, F. A. Jones Brake. See Car brake.	386,074
	Brake shoe, F. L. Sheppard Brick masonry, F. W. Gordon	
,	Brick mould sanding machine, J. A. Buck	385,790
-	Bridges, cable system for draw, Boegen & Te-	385,743
e	Bucket and truck, combined freight, L. A. De	
ם	Buckle, C. Kromberg	386,075
0	Buckle, harness. J. A. Hollenberger Burglar alarm, R. H. Umbenhaur	
3. V	Button, C. A. Peirce	385,876 385,784
	Button, collar, E. T. Dahlberg	386,002
t	Cable stop, slack, F. B. Graves	
s	Can. See Refrigerating can. Can machine, E. F. Verdel	386.096
	Car brake, I. Nicholson. Car coupling, C. A. Bond.	386,024
	Car coupling, A. P. Brews ter	885,789
е	Car coupling, C. W. Deboard	385,929
۲.	Car coupling, J. G. Hornbarger	
1	Car coupling, J. Shultes. Car heater, E. Henn	
٠.	Car spring, N. H. Davis	385,917
t	Car spring, T. C. Davis	385,800
₹	Cars by electricity, device for lighting and heat- ing, D. C. Roberts	385,774
e	ing, D. C. Roberts	986 988
-	Cars, electric motor for street, W. S. Salisbury	385,727
g	Cars, system and apparatus for heating and lighting, G. Smith	385,882
c	Carriage, self-propelling, J. F. Sinkler	385,881
•	Miller	385,942
-	Casket, Gould & Baldwin  Casks and barrels, machine for making, A. Dun-	
	Casting ingots, C. C. Currier	
3	Cement, I. C. Hatch	385,859
ı-		
	Chimney top, A. Herendeen	886,010
	Chimney top, A. Herendeen	886,010 385,793
	Chimney top, A. Herendeen Chuck and attachment for turning treenails, lathe, F. Cumming Churn, J. C. Cole	385,793 385,6 <b>9</b> 6
	Chimney top, A. Herendeen	385,793 385,696 385,714 385,828
3, e-	Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole. Churn, J. Ingells. Churn, W. H. H. Spradlin. Churn dasher, J. Davis. Cistern, Miller & Hochstuhl.	385,793 385,696 385,714 385,828 385,698 385,672
s, e- n	Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole	385,793 385,696 385,714 385,828 385,698 385,698 385,869
n e e	Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole Churn, J. Ingells. Churn, W. H. H. Spradlin. Churn dasher, J. Davis. Cistern, Miller & Hochstuhl. Cistern cleaner, F. E. McNall. Clamp. See Extension clamp. Clamp, P. A. Whitney.	385,793 385,696 385,714 385,828 385,698 385,698 385,869
n e e	Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole. Churn, J. Ingells. Churn, W. H. H. Spradlin. Churn dasher, J. Davis. Cistern, Miller & Hochstuhl. Cistern cleaner, F. E. McNall. Clamp. See Extension clamp. Clamp, P. A. Whitney. Clasp. See Corset clasp. Clay, treating, S. Friend	385,793 385,696 385,714 385,828 385,828 385,698 385,869 385,869
n e e e a	Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole Churn, J. Ingells. Churn, W. H. H. Spradlin. Churn dasher, J. Davis. Cistern, Miller & Hochstuhl. Cistern cleaner, F. E. McNall. Clamp. See Extension clamp. Clamp, P. A. Whitney. Clasp. See Corset clasp. Clay, treating, S. Friend Cleaner. See Cistern cleaner. Comb cleaner. Cloth, machine for unwinding, drawing off, and	886,010 385,793 385,6%6 385,714 385,828 385,828 385,828 385,869 385,963 385,750
f s, e e e a D , s,	Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole	886,010 385,793 385,696 385,714 385,828 385,638 385,672 385,869 385,983 385,750 386,068
neea Dr.	Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole Churn, J. Ingells. Churn, W. H. H. Spradlin Churn dasher, J. Davis Cistern, Miller & Hochstuhl. Cistern cleaner, F. E. McNall Clamp. See Extension clamp. Clamp. P. A. Whitney. Clasp. See Corset clasp. Clay, treating, S. Friend Cleaner. See Cistern cleaner. Comb cleaner. Cloth, machine for unwinding, drawing off, and cutting, N. Harris. Cock, gas, T. Maguire. Coffee pot, W. Racer.	886,010  385,793 385,696 385,714 385,828 385,638 385,672 385,869 385,750  386,068 385,719
neea Dr.,-n	Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole Churn, J. Ingells. Churn W. H. H. Spradlin Churn dasher, J. Davis Cistern Miller & Hochstuhl. Cistern deaner, F. E. McNall Clamp. See Extension clamp. Clamp, P. A. Whitney Clasp. See Corset clasp. Clay, treating, S. Friend Cleaner. See Cistern cleaner. Comb cleaner. Cloth, machine for unwinding, drawing off, and cutting, N. Harris Cock, gas, T. Maguire Coffee pot, W. Racer Column, plate metal, Mesker & Edwards,	886,010  385,793 385,6%6 385,714 385,828 385,698 385,983 385,750  386,068 385,719 385,880 385,768
neea Dr.,-n.	Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole Churn, J. Ingells. Churn, W. H. H. Spradlin Churn dasher, J. Davis. Cistern, Miller & Hochstuhl. Cistern cleaner, F. E. McNall. Clamp. See Extension clamp. Clamp. See Extension clamp. Clamp. P. A. Whitney. Clas p. See Corset clas p. Clay, treating, S. Friend Cleaner. See Cistern cleaner. Comb cleaner. Cloth, machine for unwinding, drawing off, and cutting, N. Harris. Cock, gas, T. Maguire. Coffee pot, W. Racer. Column, plate metal, Mesker & Edwards, 385,762 to Comb cleaner and comb, combined, W. M. Dixon. Cooker, steam, J. W. Davis.	385,793 385,696 385,714 385,898 385,872 385,869 385,750 385,750 385,869 385,750 385,769 385,769 385,769
neea Dr., n.	Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole	385,793 385,696 385,714 385,698 385,872 385,869 385,750 385,750 385,750 385,768 385,769 385,769 385,769 385,769 385,769 385,769 385,794
neea Dr., n. d.c.e	Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole Churn, J. Ingells. Churn, W. H. H. Spradlin Churn dasher, J. Davis Cistern, Miller & Hochstuhl. Cistern cleaner, F. E. McNall Clamp. See Extension clamp. Clamp, P. A. Whitney Clasp. See Corset clasp. Clay, treating, S. Friend Cleaner. See Cistern cleaner. Comb cleaner. Cloth, machine for unwinding, drawing off, and cutting, N. Harris Cock, gas, T. Maguire. Coffee pot, W. Racer Column, plate metal, Mesker & Edwards, Comb cleaner and comb, combined, W. M. Dixon. Cooker, steam, J. W. Davis Cooke stractor, G. W. Engel Cork extractor, G. W. Engel Corkextractor, G. W. Engel	385,793 385,696 385,714 385,898 385,898 385,872 385,869 385,750 385,750 385,760 385,763 385,763 385,796 385,794 386,068
neea Dr., n.	Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole Churn, J. Ingells. Churn, W. H. H. Spradlin Churn dasher, J. Davis. Cistern, Miller & Hochstuhl. Cistern cleaner, F. E. McNall Clamp. See Extension clamp. Clamp, P. A. Whitney. Clasp. See Corset clasp. Clay, treating, S. Friend Cleaner. See Cistern cleaner. Comb cleaner. Cloth, machine for unwinding, drawing off, and cutting, N. Harris Cock, gas, T. Maguire. Coffee pot, W. Racer. Column, plate metal, Mesker & Edwards, 385,762 to Comb cleaner and comb, combined, W. M. Dixon. Cooker, steam, J. W. Davis. Cooler. See Beer cooler. Cork extractor, G. W. Engel. Corkscrew, W. N. Barrett. Corn from the cob, machine for cutting green, G. L. Merrill.	886,010  385,793 385,696 385,714 385,898 385,898 385,893 385,869 385,750  286,068 385,719 385,890 385,768 385,796 385,794 386,005 385,834 3 385,871
neea Dr.,-n. d.c.eks.	Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole Churn, J. Ingells Churn, W. H. H. Spradlin Churn dasher, J. Davis Cistern, Miller & Hochstuhl. Cistern cleaner, F. E. McNall Clamp. See Extension clamp. Clamp, P. A. Whitney. Clasp. See Corset clasp. Clay, treating, S. Friend Cleaner. See Cistern cleaner. Comb cleaner. Cloth, machine for unwinding, drawing off, and cutting, N. Harris. Cock, gas, T. Maguire Coffee pot, W. Racer Column, plate metal, Mesker & Edwards, S85,762 to Comb cleaner and comb, combined, W. M. Dixon. Cooker, steam, J. W. Davis Cooler. See Beer cooler. Cork extractor, G. W. Engel Corn from the cob, machine for cutting green, G. L. Merrill. Corset clasp, M. W. Henius. Cotton gin, P. V. Westfall	886,010  385,793 385,696 385,714 385,698 385,698 385,693 385,750  386,068 385,750  385,769 385,780 385,794 386,083 385,794 386,083 385,793 385,893
neea Dr., nd. deeks, ed	Chimney top, A. Herendeen. Chuck and attachment for turning treenails, lathe, F. Cumming. Churn, J. C. Cole Churn, J. Ingells. Churn, W. H. H. Spradlin Churn dasher, J. Davis Cistern Miller & Hochstuhl. Cistern deaner, F. E. McNall Clamp. See Extension clamp. Clamp, P. A. Whitney Clay, treating, S. Friend Cleaner. See Corset clasp. Clay, treating, S. Friend Cleaner. See Cistern cleaner. Comb cleaner. Cloth, machine for unwinding, drawing off, and cutting, N. Harris Cock, gas, T. Maguire Coffee pot, W. Racer. Column, plate metal, Mesker & Edwards, 385,762 to Comb cleaner and comb, combined, W. M. Dixon. Cooker, steam, J. W. Davis. Cooler. See Beer cooler. Cork extractor, G. W. Engel Corn from the cob, machine for cutting green, G. L. Merrill. Corset clasp, M. W. Henius Cotton gin, P. V. Westfall Counter stiffeners, mechanism for forming, P.	385,793 385,696 385,714 385,898 385,898 385,872 385,989 385,983 385,750 385,750 385,789 385,789 385,789 385,789 385,789 385,789 385,791 385,890 385,783 385,794 386,005 385,834 3 385,710 385,834 385,710 385,832