#### ENGINEERING INVENTIONS

A car coupling has been patented by Mr. William T. Quintey, of Golden Lake, Ark. It consists of combined pin and link holders, which may be set independently of each other, for coupling cars automatically, the ordinary pin and link being used.

A steam throttle valve has been patented by Mr. Augustus H. Morrison, of Mechanicsville, N. Y It is for automatically regulating the flow of steam where, in a given operation or need, a varying amount is required, and the amount required controlling the operation of the valve, for which novel devices are pro-

A steam whistle has been patented by Mr. John Einig, of Jacksonville, Fla. The improvement consists of an extension contrivance of the lower end of the bell, to enable it to be shifted nearer to or farther from the nozzle to adapt it to high or low steam in the adjusting of the whistle for producing sounds most agreeable to the ear.

A car coupling has been patented by Mr. George J. Selleck, Jr., of Beetown, Wis. A lever is pivoted in the slot of the drawhead, a coupling pin being pivoted to the free end of the lever, and a lever is pivoted in the bottom of the drawhead, baving its inner end weighted, the outer or front end being slotted, so that when the link is in the drawhead the coupling pin passes through the link and through the slotted end of the weighted lever, and is thus held in

A steam engine has been patented by Mr. Anthony Bollinger, of Zanesville, O. It has special constructions of piston, with separate steam and exhaust chambers, communicating with the steam inlet and exhaust pipes, the pipes or tubes being arranged to move with the piston and telescope the steam supply pipe; there is also a special arrangement of the valves and means for tripping them, the object being to make a simple and durable engine, which may be readily reversed, is easily operated, and economical in the use

## MECHANICAL INVENTIONS.

A journal bearing has been patented by Mr. James M. Elliott, of Winnsborough, S. C. The cap of the journal box has an adjustable bearing block, and is provided with adjusting screws for setting it down on the journal; also with an adjusting screw and bearing faces for controlling the block laterally, the cap being permanently bolted down on the box.

A shingle machine has been patented by Mr. Charles A. Tarragon, of Portland, Oregon. It is made with sills having rails carrying rack bars with wheels, connected by a crossbar with each other, and engaging with gear wheels fixed to a shaft, so the rack bars are made to move forward and back evenly, spring pressed knives tapering the shingles according to tapered gauge bars, with other novel features.

A regulator for paper drying machines has been natented by Mr. Augustus H. Morrison, of Mechanicsville, N. Y. The invention consists in journaling one of the top rollers in one arm of a three armed lever, to another arm of which is attached a rod and tension spring, while to the opposite arm is connected the handle of a steam valve for regulating the supply of steam to the drying cylinders; there is also a bell for giving alarm if the web of paper breaks, with other novel features.

# AGRICULTURAL INVENTIONS.

A harrow attachment for plows has been patented by Mr. Enoch C. Calvin, of Pinckneyville, Ill. An obtuse angled bar carrying teeth on its outer arm is so combined with a turn plow, another bar bent at both ends having teeth adapted to work rearwardly, as to form a harrow rigidly attached to the plow beam to pulverize and level the soil, cutting down the high parts of the furrow slice and filling the low places.

A combined roller and seed planter has been patented by Mr. Julius F. Muenchow, of Plainview, Iowa. The rollers have their axles connected with the platform of the machine by a king bolt, the opening plows have standards with screw threads, and attached to the platform of the machine are seed boxes with discharge spouts, closed at their lower ends by valves operated by springs.

A fleece binder has been patented by Mr. Theodore C. H. Krueger, of Brady, Texas. It is constructed with a box attached to a supporting frame. and having inclined flanges upon its side edges, with hinged press boards and fingers operated by push bars, a cord, and a treadle, so the fleece can be compressed and held while being tied, a knife being so attached that all the twines of the bundle can be cut at a time

# MISCELLANEOUS INVENTIONS.

A jar and fastening therefor has been pa-Mr. Herman Pietsch, of Flatbush, N. Y. The jar has flanges near its mouth, and the cover has grooves and a clamp, with hooks, a lug projecting outward on one hook for being grasped to spring that end of the clamp free in opening the jar.

A rubber spring has been patented by Mr. Frank E. Flagg, of New York city. It is made of rubber cord, with the ends wound and metallic ferrules placed thereon, the latter provided with connecting devices for holding the spring in place, making a simple and durable spring for icemen's rubber aprons, door bands, cage hangers, etc.

A water tight glove has been patented by Pauline W. A. Petersen, of Brooklyn, N. Y. It is made of waterproof canvas, leather, or rubber, with the tips of the fingers, the thumb, and palm provided with projections or ribs, so the thickness and strength of these parts are increased, and the friction surface

A railway ticket has been patented by Mr. Charles J. Knapp, of Deposit, N. Y. This invention provides a specially devised coupon book for "thourailway tickets, to promote convenience in their taking up or punching, and to enable the holder to easily verify the mileage punched out by the conductor.

# 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 asearly as Thursday morning to appear in next issue

For Sale .- Two new, first class engine lathes; each back-g'd, sc.-cut., rod-f'd, power cross f'd, compound rest, full counter, friction pulleys, center rest, face plates, etc. One 16' x 26'', \$625; one 16' x 20'', \$416. E. Cornish, Manchester, N. H.

121/2 in. Reflg. Telescope, \$300. Tydeman, 835 Linden

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Wanted .- Patented articles or machinery to manufactureandintroduce. Lexington Mfg. Co., Lexington, Ky. Brush Electric Arc Lights and Storage Batteries. Twenty thousand Arc Lights already sold. Our largest machine gives 65 Arc Lights with 45 horse power. Our Storage Battery is the only practical one in the market. Brush Electric Co., Cleveland, O.

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If an invention has not been patented in the United States for more than one year, it may still be patented in Canada. Cost for Canadian patent, \$40. Various other foreign patents may also be obtained. For instructions address Munn & Co., Scientific American Patent agency, 361 Broadway, New York.

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Machinery for Light Manufacturing, on hand and built to order. E. E. Garvin & Co., 139 Center St., N. Y. Mineral Lands Prospected, Artesian Wells Bored, by Munson's Improved Portable Mills, Utica, N. Y.

C. B. Rogers & Co., Norwich, Conn., Wood Working Machinery of every kind. See adv., page 142.

Curtis Pressure Regulator and Steam Trap. See p. 78. Woodwork'g Mach'y, Rollstone Mach. Co. Adv., p. 77, Drop Forgings. Billings & Spencer Co., Hartford, Conn.

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

Steam Hammers, Improved Hydraulic Jacks, and Tube Expanders. R. Dudgeon, 24 Columbia St., New York,

Emerson's 1884 Book of Saws. New matter. 75,000. Free. Emerson, Smith & Co., Limited, Beaver Falls, Pa. Hoisting Engines, Friction Clutch Pulleys, Cut-off Couplings. D. Frisbie & Co., Philadelphia, Pa.

Barrel, Keg, Hogshead, Stave Mach'y. See adv. p. 173. Blacksmith Drilling Machines for 1/2 to 3/4 inch diameter, \$22.50. Pratt & Whitney Co., Hartford, Ct.

For best low price Planer and Matcher, and lates improved Sash, Door, and Blind Machinery, Send for catalogue to Rowley & Hermance, Williamsport, Pa.

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Iron and steel wire of all kinds. Extra qualities straightened and cut to lengths a specialty. Trenton Iron Co., Trenton, N. J., and 17 Burling Slip, New York.

Split Pulleys at low prices, and of same strength and appearance as Whole Pulleys. Yocom & Son's Shafting Works, Drinker St., Philadelphia, Pa.



#### HINTS TO CORRESPONDENTS.

Name 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 mail, each must take his turn.

or mail, each must take his turn.

Special Information requests on matters of personal rather than general interest, and requests for Prompt Answers by Letter, should be accompanied with remittance of \$1 to \$5, according to the subject, as we cannot be expected to perform such service without remuneration.

Scientific American Supplements referred to may be had at the office. Price 10 cents each.

Minerals sent for examination should be distinctly marked or labeled.

(1) W. H. S. H. asks (1) how Thorley's foo is made. A. We do not know the composition of Thorley's food. It is a medicinal preparation, and i order to determine its constituents, it will be neces sary to have it analyzed by some competent chemist of pharmacist. 2. How to make bluing? A. For bluin take 1 ounce of soft Prussian blue, powder it and pu in a bottle with 1 quart of clear rain water, and add quarter of an ounce of oxalic acid. A teaspoonful ufficient for a large washing. 3. How to soften wate A. Hard water contains more or less calcium carbon ate. The addition of lime will make it soft: See de scription of the process used in England on page 430 of Scientific American Supplement, No. 270. How the different kinds of ink are made. A. Scien TIFIC AMERICAN SUPPLEMENT, No. 157, gives numerou receipts for all kinds of ink.

(2) J. W. asks: 1. What would be the ef fect on coal gas to heat it just before it came to the burner? A. The effect of heating on the gas alon with an ordinary burner would not be beneficial for illumination? 2. Do you know of a flat flame tip the has been patented that does it? A. No.

(3) A. H. asks how to take smoke stain out of marble caused by the building being partiall burned. A. We recommend the following: Take oz. of ox gall, 1 gill of lye, 11/2 tablespoonfuls of tur pentine; mix, and make into a paste with pipe clay Apply the paste to the spots, and allow it to remain over them for several days. Or take 2 parts of commo soda, 1 part of pumice stone, and 1 part of finel powdered chalk, sift it through a fine sieve, and mix with water, then rub it well over the marble and the wash the marble off with soap and water.

(4) F. H. S. says: My boy 20 months of is beginning to talk, and stutters terribly. Wha remedy can I use? A. No medicines will be of an service, but you should have the child examined b some good physician. Stuttering in children is ofte caused by something abnormal in the mouth or throa cleft palate for instance, elongated or diseased uvula, tumor at some point, etc. It is also caused by hearing some one else stutter; the remedy for this is of cours to keep him away from the influence. If neither of these causes exist, you must wait; nothing can be reall done to break the habit beforethe child is six to seve

(5) J. F. B. asks: What parts of glue an glycerine mixed together will give me a thin substance that, after drying, can be bent or doubled without cracking or breaking? A. You will have to use a con position similar to printers' rollers. An average com position consists of Cooper's best glue, 8½ lb.; extr sirup, 2 gal.; glycerine, 1 pint; Venice turpentine, Steep the glue in rain water until pliant, and the drain it well. Next melt it over a moderate fire, but de not "cook" it. This will take from 15 to 25 minutes Then put in the sirup or molasses and boil three-quar ters of an hour, stirring it occasionally and skimmin off impurities rising to the surface. Addthe glyceriu and turpentine a few minutes before removing from the fire, and pour slowly. Slightly reduce or increase the glue as the weather becomes colder or warmer.

(6) L. W. asks 1. For the process fo cleaning and curing tripe from the slaughter house t the market. A. In New York it is partially parboiled but in some other places only washed with cold water Pa. Diamond Drill Co. Box 423. Pottsville. Pa. see p. 141.

Munson's Improved Portable Mills. Ultica. N. Y.

ling in hot vinegar and spices, after cooking. 2. House, and the cooking of the cooking of the cooking of the cooking. is bay rum made? A. A cheap bay rum can be pre pared by saturating a quarter pound block of magnes. um carbonate with oil of bay; pulverize the magnesia place it in a filter, and pour water through it until th desired quantity is obtained, then add alcohol. The quantity of water and of alcohol depends on the desir ed strength and quantity of bay rum. 3. What are few of the best muscle and blood producing kinds o food? A. The question of nutritive foods is discusse elaborately in Scientific American Supplement 186 under the title of "Food Physiology and Force," and in Scientific American Supplement 124, as and Nutritive Value of Foods." 4. Are wild meat an game better than domestic? A. Not necessarily

(7) F. A. N. asks: 1. How would you g to work to put a good finish on a piece of black walnu wood with white wax or paraffine to take the place of varnish or shellac? What would you use to cut th wax to get it in a liquid state, and what proportion t mix it. Also what to color it with, so it would not show white in the pores of the wood? A. Wax and paraffin are both soluble in benzine or naphtha. You can mak it of any desired thickness by using more or less naphtha. You can color with burnt umber or with asphal-

To prepare wax for polishing floors, 121/2 pounds of yellow wax rasped are stirred into a hot solution of 6 pounds of good pearl ash in rain water. Keeping the mixture well stirred while boiling, it is first quiet, but soon commences to froth; and when the effervescence ceases heat is stopped, and there are added to the mixture while stirring 6 pounds of dry yellow ocher. It may then be poured into tin cans or boxes, and hardens on cooling; when wanted for use a pound of it is diffused in 5 pints of boiling hot water, and the mixture, well stirred, is applied while still hot to the floor by means of a paint brush; it dries in a few hours, after which the floor is to be polished with a large floor brush, and afterward wiped with a coarse woolen cloth. It is said that a coat will last six months.

### INDEX OF INVENTIONS

For which Letters Patent of the United States were Granted

September 2, 1884,

#### AND EACH BEARING THAT DATE.

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

	Air cooling apparatus, E. H. Lynch	304,65
d	granular or plastic materials for, M. B. Church	304 61
- 100	Ash pan J. H. Hart	
n 4	Ax, Martin & Humbert	304.53
-   1	Axle lubricator, Rosensteel & Shallenberger  Axle lubricator, J. T. Young	
r	Axle lubricator, car. Hitchcock & Greasby	
3 1	Bag. See Paper bag.	
t l	Basins and sewers, connection between, C. I.	304,65
3	Kane	
.   1	Bed bettom, spring, S. D. Tuttle	
11.1	Beehive, O. M. Foltz	
	Bicycle saddle, G. W. Marble	
1	Bit brace, J. S. Fray	304,51
. 1.4	Board. See Sign board. Boiler for heating buildings, W. H. Byram	204 60
	Boiler furnace, W. Lowe	
	Bolting reel frame, W. E. Gorton	304.68
1	Boot and shoe uppers, machine for moulding, G. H. Clark	304509
	Boot or shoe crimping machine, Fifield & Holt	304,51
	Boots or shoes, seat beater for, G. Wunderlich Bottle and jar stopper, W. W. Guptill	
- 1 -	Box. See Camera box. Journal box. Paper	004'01'
	box.	
	Box fastener, J. R. Sprague	
1.	Brace. See Bit brace.	202100
Į	Brake. See Vehicle brake.	
1 1	Bread cutter, M. Schneider Bridle overdraw loop, N. B. Le Blond	
, 1	Brine, purification of, E. A. Mebus	304,341
1	Broom handle, whisk, T. P. Watkins	304,589
. 1 4	Brush, paraffine, H. C. ThomasBuckle, trace, W. J. Butler	
i	Buggy cover, E. Bradley	
1	Burner. See Vapor burner.	
	Button attaching implement, M. H. McNair Buzz, whistling, F. R. Hunt	
1	Calendar, J. W. McIndoe	
	Camera. See Photographic camera. Camera box, T. H. Blair	204 404
	Can. See Oil can. Paint can.	304.40
ιC	Candy rolling table, J. W. & W. P. Kirchhoff	304,65
1	Car and freight transfer apparatus, R. H. Ram- sey304,562,	904 569
. 6	Car buffer, R. E. Ricker	
, (	Car coupling, J. W. Davis	
۰ ۱	Car coupling, D. I. Hays	
7   0	Car coupling, J. B. Parent	304,551
	Car coupling, W. T. Quinley	
.   (	Car coupling, D. M. Reynolds	
1 0	Car coupling, C. B. Spencer	304,46
	Car coupling and brake, J. II. Duffins	<b>5∪4,62</b> 8
-1	Hagan	
.   (	Car draw bar, street, W. P. Hudson	
١.	Car draw bars, manufacture of railway, D. S. Wineland	304,39
	Car replacer. R. H. Watterson	304,590
1	Car starter, J. C. Wood	
11.	Carrier. See Cash and parcel carrier. Trace car-	2000
	rier.	204 404
'   1	Cash and parcel carrier, W. P. Bigelow	
	Chain, drive, H. H. Doubleday	304.62
,   C	Chain, drive, E. L. Howe	304,323
	Chairs, attachable rocker for, W. Malick	304,435
. 0	Chandelier, oil and gas, S. Horowitz	304,645
10	Cigar and cigarette, J. McGovern	
,   C	Cigars, apparatus for manufacturing, Moeller &	
	Sierk	
١,	Cigars, manufacture of, H. Thoss	004,08
10		
1	closed, J. P. Tirrell	304,376
	Clasp. See Snap clasp.	304,376
	Clasp. See Snap clasp. Cleaner. See Cotton cleaner. Cotton gin saw cleaner.	
	Clasp. See Snap clasp. Cleaner. See Cotton cleaner. Cotton gin saw cleaner. Cleat, F. M. Munroe.	804,349
	Clasp. See Snap clasp.  Cleaner. See Cotton cleaner. Cotton gin saw cleaner.  Cleat, F. M. Munroe	<b>3</b> 04,349 304,595
	Clasp. See Snap clasp.  Cleaner. See Cotton cleaner. Cotton gin saw cleaner.  Cleat, F. M. Munroe.  Clock secondary electric, C. E. Barschig  Clock striking mechanism, S. M. Terry  Cloth, machine for chinchilla-finishing, C. H.	804,349 304,595 304,580
	Clasp. See Snap clasp.  Cleaner. See Cotton cleaner. Cotton gin saw cleaner.  Cleat, F. M. Munroe.  Clock. secondary electric, C. E. Barschig  Clock striking mechanism, S. M. Terry.  Cloth, machine for chinchilla-finishing, C. H.  Baush	804,349 304,595 304,580 304,40%
	Clasp. See Snap clasp. Cleaner. See Cotton cleaner. Cotton gin saw cleaner. Cleat, F. M. Munroe. Clock, secondary electric, C. E. Barschig Clock striking mechanism, S. M. Terry. Cloth, machine for chinchilla-finishing, C. H. Baush. Cock, hydraulic, A. Hallowell.	804,349 304,595 304,580 304,40% 304,316
	Clasp. See Snap clasp. Cleaner. See Cotton cleaner. Cotton gin saw cleaner. Cleat, F. M. Munroe. Clock secondary electric, C. E. Barschig. Clock striking mechanism, S. M. Terry. Cloth, machine for chinchilla-finishing, C. H. Baush. Cock, hydraulic, A. Hallowell. Cock, relief and gauge, M. S. Cabell. Colls, rings. and similar articles, device for mak-	304,349 304,595 304,580 304,402 304,316 304,610
	Clasp. See Snap clasp. Cleaner. See Cotton cleaner. Cotton gin saw cleaner. Cleat, F. M. Munroe. Clock, secondary electric, C. E. Barschig Clock, striking mechanism, S. M. Terry. Cloth, machine for chinchilla-finishing, C. H. Baush Cock, hydraulic, A. Hallowell Cock, relief and gauge, M. S. Cabell Cock, relief and gauge, M. S. Cabell Colis, rings and similar articles, device for making. Crimmett & Cook.	304,349 304,599 304,580 304,402 304,316 304,610
	Clasp. See Snap clasp. Cleaner. See Cotton cleaner. Cotton gin saw cleaner. Cleat, F. M. Munroe. Clock, secondary electric, C. E. Barschig Clock striking mechanism, S. M. Terry. Cloth, machine for chinchilla-finishing, C. H. Baush. Cock, hydraulic, A. Hallowell. Cock, relief and gauge, M. S. Cabell. Coils, rings. and similar articles, device for making. Grimmett & Cook. Combination lubricator, A. E. Barthel.	304,349 304,595 304,580 304,402 304,316 304,610 304,639 304,289
	Clasp. See Snap clasp. Cleaner. See Cotton cleaner. Cotton gin saw cleaner. Cleat, F. M. Munroe. Clock, secondary electric, C. E. Barschig. Clock striking mechanism, S. M. Terry. Clock striking mechanism, S. M. Terry. Cloth, machine for chinchilla-finishing, C. H. Baush. Clock, hydraulic, A. Hallowell. Clock, relief and gauge, M. S. Cabell. Clock, relief and gauge, M. S. Cabell. Cloils, rings, and similar articles, device for making. Crimmett & Cook. Combination lubricator, A. E. Barthel. Compound engine, M. Coryell. Concrete and other plastics and cements, appara-	304,345 304,595 304,596 304,402 304,816 304,635 304,635 304,285 304,285
	Clasp. See Snap clasp. Cleaner. See Cotton cleaner. Cotton gin saw cleaner. Cleat. F. M. Munroe. Clock. secondary electric, C. E. Barschig Clock striking mechanism, S. M. Terry. Cloth, machine for chinchilla-finishing, C. H. Baush Cock, hydraulic, A. Hallowell Cock, relief and gauge, M. S. Cabell Coils, rings and similar articles, device for making. Grimmett & Cook. Combination lubricator, A. E. Barthel Compound engine, M. Coryell Concrete and other plastics and cements, apparatus for mixing ingredients of, C. Sooysmith	304,349 304,580 304,580 304,402 304,610 304,630 304,289 304,297 304,366
	Clasp. See Snap clasp. Cleaner. See Cotton cleaner. Cotton gin saw cleaner. Cleat, F. M. Munroe. Clock, secondary electric, C. E. Barschig Clock striking mechanism, S. M. Terry Cloth, machine for chinchilla-finishing, C. H. Baush. Cock, hydraulic, A. Hallowell. Cock, relief and gauge, M. S. Cabell Coils, rings, and similar articles, device for making. Crimmett & Cook Combination lubricator, A. E. Barthel Compound engine, M. Coryell. Concrete and other plastics and cements, apparatus for mixing ingredients of, C. Sooysmith Copperas, apparatus for recovering, J. Lyons	304,349 304,595 304,580 304,402 304,816 304,630 304,289 304,297 304,366 304,332
	Clasp. See Snap clasp. Cleaner. See Cotton cleaner. Cotton gin saw cleaner. Cleat, F. M. Munroe. Clock, secondary electric, C. E. Barschig Clock striking mechanism, S. M. Terry Cloth, machine for chinchilla-finishing, C. H. Baush Cock, hydraulic, A. Hallowell Cock, relief and gauge, M. S. Cabell Coils, rings and similar articles, device for making. Crimmett & Cook Combination lubricator, A. E. Barthel Compound engine, M. Coryell Concrete and other plastics and cements, apparatus for mixing ingredients of, C. Sooysmith Copperas, apparatus for recovering, J. Lyons Corkscrew, W. Crabb Cotton cleaner and condenser, W. Jarrell	304,349 304,596 304,402 304,816 304,630 304,289 304,289 304,332 304,332 304,332 304,299
	Clasp. See Snap clasp. Cleaner. See Cotton cleaner. Cotton gin saw cleaner. Cleat, F. M. Munroe. Clock secondary electric, C. E. Barschig Clock striking mechanism, S. M. Terry Cloth, machine for chinchilla-finishing, C. H. Baush. Clock, hydraulic, A. Hallowell. Clock, relief and gauge, M. S. Cabell. Clock, rings and similar articles, device for making. Crimmett & Cook. Combination lubricator, A. E. Barthel. Compound engine, M. Coryell. Concrete and other plastics and cements, apparatus for mixing ingredients of, C. Sooysmith. Copperas, apparatus for recovering, J. Lyons. Corkscrew, W. Crabb. Cotton cleaner and condenser, W. Jarrell. Cotton gin saw cleaner, R. M. Dorsey.	304,349 304,596 304,402 304,816 304,630 304,289 304,289 304,332 304,332 304,332 304,299
	Clasp. See Snap clasp. Cleaner. See Cotton cleaner. Cotton gin saw cleaner. Cleat, F. M. Munroe. Clock, secondary electric, C. E. Barschig Clock striking mechanism, S. M. Terry Cloth, machine for chinchilla-finishing, C. H. Baush Cock, hydraulic, A. Hallowell Cock, relief and gauge, M. S. Cabell Coils, rings and similar articles, device for making. Crimmett & Cook Combination lubricator, A. E. Barthel Compound engine, M. Coryell Concrete and other plastics and cements, apparatus for mixing ingredients of, C. Sooysmith Copperas, apparatus for recovering, J. Lyons Corkscrew, W. Crabb Cotton cleaner and condenser, W. Jarrell	804,344 304,595 304,580 304,407 304,610 304,635 304,297 304,365 304,323 304,333 304,333 304,333
	Clasp. See Snap clasp. Cleaner. See Cotton cleaner. Cotton gin saw cleaner. Cleat, F. M. Munroe. Clock secondary electric, C. E. Barschig. Clock striking mechanism, S. M. Terry. Cloth, machine for chinchilla-finishing, C. H. Baush. Clock, pdraulic, A. Hallowell. Clock, relief and gauge, M. S. Cabell. Colis, rings. and similar articles, device for making. Crimmett & Cook. Combination lubricator, A. E. Barthel. Compound engine, M. Coryell. Concrete and other plastics and cements, apparatus for mixing ingredients of, C. Sooysmith. Copperas, apparatus for recovering, J. Lyons. Corkscrew. W. Crabb. Cotton cleaner and condenser, W. Jarrell. Cotton gin saw cleaner. R. M. Dorsey. Coupling. See Car coupling. Pipe coupling.	304,344 304,595 304,580 304,407 304,316 304,610 304,285 304,297 304,366 304,363 304,304 304,304

 Horner
 304.644

 Creamery or refrigerator, F. W. Moseley
 304,348