RECENTLY PATENTED INVENTIONS. Engineering.

SAFETY VALVE.—Erastus B. Kunkle, Fort Wayne, Ind. This is an improvement on a former patented invention of the same inventor, in which the valve body has a hood-shaped cap with a slide outlet, a cup-shaped valve being seated in the body, which contains a helical spring, the parts being so arranged that when the spring is once set, and the parts are put in position to lock a regulating screw in place, the parts cannot be tampered with without attracting the attention of those in charge.

ROTARY SNOW PLOW. - John W. Haughawout, Omaha, Neb. This plow has a wheel with a back plate from which extends a series of radial paddles, so as to form a central space on the back plate, where a cone is centrally secured with its base extending into the central space, reversible cutters being held on the front end of the paddles and the wheel being revolved by suitable means as the car holding the plow is pushed forward against the snow, whereby the snow is readily cut and discharged to either side of the track.

Railway Appliances.

RAIL JOINT. - John B. Walker, Cor. vallis, Oregon. This is an improvement in that class of rail joints in which a joint piece or girder is applied beneath the abutting ends of the rails and secured to them by claws or flanges that embrace their bases, thus forming a bridge and support for the rail ends and also holding them in due alignment, the joint piece or girder being so constructed as to be superior for its purpose.

DUMPING CAR.-John Lawson, Michigamme, Mich. This is a car adapted mainly for use in mining work, but also adapted for other purposes, and has a rigid flaring top, with suitable means for dumping the car, and for returning it to the point at which it is loaded, easily discharging every piece of material with which it is loaded, while it is operated in such manner that it cannot break loose, is very strong, and inexpensive in construction.

Electrical.

MAGNETIC ORE SEPARATOR.—Charles G. Buchanan, New York City. Combined with a hollow cylinder of magnetic material is a series of magnets within the cylinder connected to produce posi-tive and negative poles in alternation around the circumference of the cylinder, while a commutator connected with the cylinder is adapted to change the direction of the current, and there is an ore-feeding hopper and stirrer to insure a uniform flow of ore to the separating cylinder.

Mechanical.

SOLDERING TOOL.-Edwin L. Barber, Henrietta, Texas. This is a tool which requires no furnace to heat it, having in itself a reservoir for gasoline or other light hydrocarbon and a burner and a valve for regulating the combustion of the gasoline as required for the proper heating of the tool

DIE FOR MAKING BOLTS.-Thomas J. Bush, Lexington, Ky. This is an improvement on a former patented invention of the same inventor, relative to making interlocking bolts, the improvement consisting of a die or drop forging machine of peculiar con-Struction to shape the locking end of the bolt.

SPINDLE DRIVER FOR SPINNING MA-CHINES.-Samuel James and Jeremiah K. Sanders, Lebanon, Mo. This invention covers a novel banding and tension mechanism whereby the spindles in a section of the machine will be simultaneously rotated in the same direction by a single band, the tension being automatically regulated, while a self-feeding oiler enables the apparatus to be run longer without stoppage than has heretofore been possible.

Agricultural.

Poison or Fertilizer Distributer. -Charles K. Foster, Iola, Wis. This is a machine designed to drop the poison or fertilizer upon the hills only, and means are provided whereby the driver may cause the material to drop upon any hill out of the regular alignment, or cause it to be continuously spilled when the plants are high and spread from hill to hill. the invention covering a novel construction and combination of the several parts.

Miscellaneous.

WAISTBAND. - Frederick Spitz, New York City. This invention provides for the making of a waistband strip adapted to be wound in a roll, the proper lengths wanted for use being cut therefrom for use as desired, eyelets being formed at frequent intervals in the strip, and independent elastic loops near the

GARMENT SUPPORTER.-Spurgeon C. Scantlebury, Eastport, Me. This invention provides a slotted plate, with studs and a key, forming a device especially adapted for use as a hose supporter, but also applicable with other garments, quickly and easily applied, not liable to slip, and that will not tear the gar

RADIATOR.—Arthur H. Fowler, Buffalo. N. Y. This is a construction to facilitate the circulation of steam or hot water to heat buildings, the radia tor having hollow sections forming air spaces, with side passageways and air ducts, and other novel features, designed to give a larger heating surface proportionate to the height of the radiator than usual, while reducing the cost of construction and fitting of the parts, insuring tight joints, free from leakage.

Casing Tobacco. — John C. Frost Statesville, N. C. This invention covers au apparatus with a casing cylinder having perforated coil pipes for spraying a solution upon the leaves, rolls for pressing the leaves as they pass out of the cylinder, devices for removing foreign matter and scraps before the tobacco is cased, with means for cooking the casing solution by

steam heat, and always at a uniform temperature, all readily taken from the net without interfering with the portions of the tobacco being treated alike

ROOFING MATERIAL.-Joseph N. Hopper, Pawnee City, Neb. This is a new roofing material consisting of a layer of woven wire having its meshes filled with a plastic mass and with a backing of fabric saturated with a similar filling material and incorporated with the woven wire layer, whereby the whole is designed to be impervious to water, strong, flexible, easily repaired, and conveniently put up in rolls, the new article neither cracking from the winter's cold nor softening from the summer's heat.

IRONING BOARD. - Schooler C. Horn, Bladensburg, Ohio. This board has its sides and ends grooved, while a clamp with a top cross bar has its side and lower cross bars fitted to the edge groove of the board, to which a spring is secured having notches for engagement by the top cross bar of the clamp, the board being designed to facilitate properly shaping the bosom and neckband before the iron is applied.

DOOR CHECK .- John H. Minix, Eaton, Ohio. This device comprises an arm having a bearing to engage the floor, a handle by which the arm may be moved, and a spring to actuate the arm to adjust its bearing into and out of engagement with the floor, whereby the door may be held closed or partially open,

HOMINY FLAKES, ETC. - Jeremiah H. Little, Yellow Springs, Ohio. This invention covers an improved means of manufacturing hominy and corn flakes, while preserving their flavor, form and consistency, there being combined with the cooking vessel crushing rolls, a casing, a drying chamber, with shaking screens and a trough-like bottom, and means for forcing a hot air blast upward into the chamber.

VEHICLE SEAT. - James M. Johnson. Arneckeville, Texas. Side bars connected by a c bar engage the top edges of the wagon body, and on the side bars are journaled shafts, each having two short cranks, to the outer ends of which springs are connect ed, the seat being supported upon opposite upper ends of the springs, the movement of one pair of springs tending to so regulate that of the other pair as to preserve the seat horizontally with an uneven load.

FOLDING CUP. — Hobart R. Haynes, Westminster, Mass. This cup is made of a series of spherical lunes hinged together at their ends and over lapping one another, forming a drinking cup of simple and durable construction which can be readily foldedto take up but little room in a pocket, valise, etc

SLATE. - Emma C. Hudson, Seattle Washington. This invention provides an improved slate frame adapted to hold water and sponges for cleaning the slate, a tube to hold water, and with pockets for the sponges, being held in the slate frame.

PERSPIRATION POWDER. - Sarah G. Hull, Oklahoma, Oklahoma Ter. This is a deodorizing composition for application to the body, and is made of quinine and finely pulverized burnt alum, in specified proportions, the compound being generally harmless and designed not to interfere with healthy perspiration.

MAIL BAG FASTENING. - Stewart K. Davis, August F. Stockley and William I. Barnett, Buena Vista, Col. According to this invention the upper edges of the bag are formed into a roll, and sliding flexiblesleevesencircle these rolled or doubled edges. a peculiar catch holding the sleeves together, making a fastening that is quickly operated, and designed to hold the sides of the bag so closely together that the smallest article cannot be abstracted.

PAPER BAG.—Charles W. Fishel and Frank E. Sweet, Carbondale, Col. Combined with a paper bag of ordinary form is an apron attached to one side, and a string with a loop at one end passed through holes in the aprox, the bag being for the use of grocer and others, and the improvement saving wrapping twine and time in doing up packages.

HEAD COVERING.—Simon Tuch, New York City. This a new article of wear for ladies' and children's use, having a cap-like body covered with pliable stays, a portion of the covering projecting outward and adapted to be flared or bent to vary the appearance of the article, so that it may be readily changed into different shapes without unfolding or separating any of the parts.

BRACKET.—George R. Nafis, Brooklyn, N. Y. This invention consists of a sleeve fitted to turn on a pole and an arm having an inclined slot through which passes a pivot pin on the sleeve, the arm being adapted to engage with its inner edge the side of the pole or to turn on the pin to form a convenient bracket for use on clothes racks, flower stands, book cases, etc.

SIDEWALK. - Julius F. Jaquet, Milwaukee, Wis., and William McAuslan, Brooklyn, N. Y. Combined with a series of bracket stands are elongated and perforated sills, on which are located and interlocked tread pieces, in connection with sliding clamping blocks and keys, the whole designed to form a walk quickly put in place or taken up forrepair, and made of either wood or terra cotta and metal.

PIER PROTECTOR. - Agnew Moore, Missoula, Montana. A vertical roller is journaled at the apex of the pier, and side rollers at the sides, a plate being arranged angularly between the front and side rollers at each side of the pier, the improvement being designed especially to protect bridge piers from drift wood, logs, boats, etc.

ADDING MACHINE. — Eri F. Jewett. Newtown, Ohio. Combined with a case having a slot and a series of tapes with numerals is a card having two series of numerals oppositely and alternately thereon. an apertured plate, and other novel features, by which numbers may be rapidly and accurately added or subtracted in a mechanical way, requiring little mental process.

FISH NET.-Larence A. Johnson, San Francisco, Cal. This is a net with an interior trap, and provided with a spar fitted with wheels or whirls near the ends, whereby the net may be readily drawn over the bottom of a body of water, and may be conveniently hoisted aboard a boat or vessel, while the fish may be

FISHING REEL. - Elbert B. Porter, Penn Yan, N. Y. Combined with a driving crank and a driving spring is an intermediate planetary gearing by which the turning of the reel and the winding of the spring may be carried on simultaneously, the reel being detachable from the gearing, and a brake being provided for retarding the motion of the reel, and a drag to offer a slight resistance to its rotation and give an

Note.—Copies of any of the above patents will be furnished by Munn & Co., for 25 cents each. Please end name of the patentee, title of invention, and date of this paper.

NEW BOOKS AND PUBLICATIONS.

NEW BUSINESS IN WALL STREET. Roderick H. Smith, 6 Wall Street, N. Y. Pp. 85.

The author of this work has developed a plan by which he believes some certainty can be attained in dealing in securities. By confining operations to dividend-paying stocks, buying on declines and selling on small advances, handling small lots and dividing the risks, a method is figured out that seems to show a reasonable chance of steady realization. To elucidate the scheme tabular statements of dealings are shown which represent actual accounts. The author certainly suceeds in picturing the advantages of Wall Street as a field for speculation, whether his plan will work or not, may be to a conservative mind at least an object of surmise. Mr. Smith, who is the author of "The Science of Business," "Smith Business Chart," etc., has certainly produced in "A New Business in Wall Street" a most interesting and attractive little work.

FIRST LESSONS IN METAL WORKING. By Alfred G. Compton. New York John Wiley & Sons. 1890. Pp. vi, 170. Price \$1.50.

In the present days of manual training in schools, a work emanating from the instructor in charge of the manual department of the College of the City of New York is of special value, and has an authoritative standing. Its illustrations and eminently practical directions fully carry out all anticipations,

SCIENTIFIC AMERICAN

BUILDING EDITION

MARCH NUMBER.-(No. 65.)

TABLE OF CONTENTS.

- 1. Plate in colors showing the residence of P. H. Hodges, at Stratford, Conn. Perspective view, floor plans, etc. Cost complete \$8,000.
- 2. Handsome colored plate of an elegant residence in Riverside Park, New York City. Floor plans, perspective elevation, etc. Cost \$30,000.
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- Handsome residence of Mr. F.: Chamberlain, at Hart ford, Conn. Francis H. Kimball, of New York City, architect. Floor plans, perspective elevation, etc. Cost \$60,000 complete.
- Illustrations of two attractive semi-detached houses erected for Mr. A. L. Pennock, at Philadelphia, Pa. Floor plans and perspective. Approximate cost \$15,000 each. F. U. Beal, New York, architect.
- Floor plans and photographic view of a residence at Edgecombe Court, Chicago, Ill. Estimated cost \$5,400.
- A pillar cottage erected for Mr. G. W. Childs, at Wayne, Pa. Cost \$6,000 complete. Perspective and floor plans.
- Handsome residence at Hartford, Conn., W. B. Tubbey, architect, New York. Cost \$19,000 complete. Floor plans and perspective.
- Two floor plans and photographic view of an attractive residence at Austin, Chicago, Ill. Estimated cost \$7,000.
- A very convenient and attractive suburban cottage of modern design, erected for Mr. E. W. Given, at Mont Rose, Orange, N. J. Cost \$5,500 complete. Messrs. Rossiter & Wright, architects New York. Floor plans and perspective.
- Residence at Alexander Avenue, Buena Park, Chicago, Estimated cost \$5,000 complete. Plans and photographic view.
- 12. Photographic perspective view of the residence of Mr. Frank Crowell, Minneapolis, Minn. F. E. Joralemon, architect.
- 13. Miscellaneous contents: Preserving smoke pipes from rust.-Door hanging, illustrated with 6 figures.-Safe construction of buildings, illustrat ed with 5 figures,-Improved blind slat planing machine, illustrated. - Seamless copper house boiler, illustrated. - Best quality of roofing tin plate.-Blower engines of the Galena.-An efficient sandpapering machine, illustrated. - The "Hero" spring hinge, illustrated .- The Duplex joist hanger.

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ouilding. Drawer 8, Seneca Falls, N. Y. Send to H. W. Knight & Son, Seneca Falls, N. Y., for eatalogue of Pattern Letters and Figures.

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HINTS TO CORRESPONDENTS.

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.

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

(2870) C. A. W. asks: By what solvent an I obtain a clear solution of menthol up to 5 per cent? A. Dissolve in an essential oil, such as oil of cloves, and dilute with strong alcohol.

(2871) F. W. F. asks (1) for a good way to take the color from overalls without injuring them. A. If well dyed, it cannot be done. Chloride of lime might destroy the dye, but would tend to rot the cloth. If applied, it should be well washed out, and a dilute solution of sulphurous acid applied afterward. 2. For a good cement for holding glass together. A. Dammar varnish, or Canada balsam, or caseine cements; see query 2740.

(2872) M. D. asks: By what theory of physics is the extreme cold produced and explained resulting from anhydrous ammonia and sulphuric ether? A. The evaporation of the fluids requires energy, which is absorbed from surrounding bodies as heat energy, and which heat is rendered latent or caused to disap-

(2873) R. H. asks how sulphur dioxide gas can be cheaply made. A. By heating concentrated sulphuric acid and sulphur or charcoal in a flask and onducting the evolved gas into water. Hyposulphite of soda can be treated with dilute sulphuric acid in an evolution flask and the gas can be collected as above.

(2874) H. A. asks: Can you give me ingredients for a solution in which to dip a small round lamp wick, to retard charring? A. Try phosphate of soda or borax dissolved in water,

(2875) W. A. asks: I want to know whether a pieceof brass tubing one thirty-second thick, pushed over a coil, will weaken the current, or will the current pass through the brass the same as it does through the paper core the wire is wound on? A. Use

(2876) F. I. M. asks: 1. What causes the thinning out of negatives (dry plates) in the fixing bath after development? I have Cramer's plates No. 50, and made up the solutions just as described, but spoiled 8 plates already. The trays are clean, the developing and fixing solutions kept separate, every care is taken, nevertheless said result. A. The thinning of the negative plate is due to the dissolving out of the unacted upon bromide of silver in the film, either by light or the developer. If plates are under-exposed, they are likely to develop thin. If over-exposed, the same result is obtained and the picture flashes out quickly. If you have

given the correct time, thinness is due to too short de velopment. You need to keep the plate in the develope until you see signs of the image appearing through th back of the film. Probably your trouble has been in making instantaneous exposures with too weak a ligh or a slow lens stopped down. Both will make thin ne gatives. 2. Which are the best plates for instantane ous work? A. Cramer C, Seed 26, Stanley, Forbe and Carbutt plates are good. 3. Can you give me good formula for a developing and fixing bath? A An energetic developer is made by dissolving in warr

To two ounces of the above add one drachm of fol

Water 3 02. Carbonate of potash...... 1 "

Begin by soaking the plate in the first solution a fe minutes, then, should the plate refuse to develop, add the second. A fixing bath is made by dissolving 1 ounc of hyposulphite of soda in 6 ounces of water. 4. D you know of any good book containing instructions i developing, fixing, printing, and what is the price? A 'The Amateur Photographer," by Ellerslie Wallac

(2877) G. L., alluding to an article in ou SUPPLEMENT, No. 226, in which "black alder" is give as the popular name of Rhamnus frangula, asks this is not an error, as "black alder" is the popular name of *llex verticillata*. A. No; it is not an error, one sense. If the popular names of plants were sub ject to laws, the name "black alder" would, by the la of priority, belong to Rhamnus frangula, which, by th old herbalists, was called Alnus nigra, because, Gerard observes, its "leaves be like those of the alde tree (the Alnus glutinosa of Europe), yet blacker. The name "alder" properly belongs to the species in cluded under the generic name of Alnus, a Latin term cognate with the Teutonic, Scandinavian, and Sclavoni names of the common alder of Europe. The nam "black alder" is properly applied in this country t Alnusser rulata and A. incaua, and improperly to No. mopanthes Canadensis and Ilex verticillata. To the la mentioned plant the name was applied by the earl English colonists. The reason for the application not obvious, since the plant is not an alder, resemble no species of alder, and is not black in any of its part The most conspicuous feature of the plant is its brigh red berry-like drupes, which persist through the winter (as implied in the popular name "winterberry"), an which, one would suppose, would have recalled to the English mind the fruit of the common holly (Ilex aqui folium) of the old country, a plant generally related to our so-called "black aider." It must be remembered that the English names of plants given in medical work are not always popular, in the strict sense of the word but are often merely translations of Latin names use by the older botanists, who were merely wont to cla sify plants rather by their external resemblances that by their botanical affinities.

(2878) T. H. asks (1) how to make a preparation for bleaching lard. A. One process is to her the melted fat with sulphuric acid 13 to 145 sp. gr. One for preserving meats (made with boracic acid). 92 parts pure glycerine are heated to 302° Fah., and parts of finely pulverized boracic acid are added. Stea is evolved in considerable quantities. An entire day needed for the preparation of 6 pounds. Or 100 par common borax may be dried completely and mixed wit 150 parts glycerine at the above temperature. They a about twenty times as powerful as salt.

Replies to Enquiries.

The following replies relate to enquiries recently pu lished in Scientific American, and to the numb

(2787) In reply to inquirer No. 2785 would say if his cider is colored with any iron su stance, that is to say, lif any nails are driven through th barrel into it, use fresh sweet milk, one quart, put barrel and stirred up, and then filtered, will make it cle as if fresh made. Try it on small quantity; say take vinegar and whisky and add a few drops of tinctu iron; it will turn black; then add your milk, and filter. GEO. W. GULLICK.

TO INVENTORS.

An experience of forty years, and the preparation more than one hundred thousand applications for p tents at home and abroad, enable us to understand the laws and practice on both continents, and to possess u equaled facilities for procuring patents everywhere. $\mbox{\tt Synopsis}$ of the patent laws of the United States and foreign countries may be had on application, and perso contemplating the securing of patents either at home abroad, are invited to write to this office for price which are low, in accordance with the times and our e tensive facilities for conducting the husiness. Addre MUNN & CO., office Scientific American, 361 Broa way, New York.

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February 24, 1891.

AND EACH BEARING THAT DATE

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e. st	Car brake, automatic, Seawell & O'Hara	447,207 447,154 446,976	R
ly : is	Car coupling, G. R. Rogers. Car coupling, C. W. Smith Car coupling, Weeks & Bush.	447,259 557,165 447,035	1.
es :s. ht	Car door latch, O. P. Hix Car heating apparatus, W. C. Baker Car platformgate, Q. C. Bushman	447,182 447,100 447,102	I.
er	Car, railway, L. P. Farmer	446,951 447,054 446,951	I.
ne ii-	Care ourrent controlling derice for electric reil-	341,011	I
to ed	way, J. C. Chamberlain. Carriage bow, I. N. Topliff. Carriage corner irons, process of and apparatus for straightening, E. C. Porter.	447,230 446,938	I I I I
d,	Carrier and cleaner, J. 11. R. Wendel	445,173	L
ed .8-	Case. See Book case. Boot or shoe case. Cash indicating, recording, and registering machine, C. W. Weiss.	447,036	I
an	Case. See Book case. Boot or shoe case. Cash lindicating, recording, and registering machine, C. W. Weiss Cash Indicator and recorder, Kruse & Weiss Cash register and indicator, W. C. McGill Cash register and indicator, Webster & Drew. Cement, apparatus for the calcination of, P. Krottnaurer	447,031 446,925 447,264	I.
e- at	Krottnaurer Cement, manufacture of Portland, H. C. Baum Chopper. See Cotton chopper. Chucks, automatic feed mechanism for, J. B.	447.15 5 446,911	I. L
2. A. 62			N N N
m is	Churn, J. P. Lynott. Cigar bunching machine. Westman & Delarue Cigarette box. E. A. Hoen Cleaner. See Boiler cleaner. Boot.or shoe cleaner. Saw cleaner.		N N N
t8 th	Clock, independent electric, W. J. Dudley Cloth seouring, rinsing, and purifying machine, J. W. Steelbrooke. Clothes drier, J. Degelleke.	446,937 446,853	N N M
re	Clutch mechanism, S. K. White	447,019	N N
b.	Cockeye, M. M. Killinger	446,870 447,002 447,686	N N
er	Concentrating apparatus, J. K. Hallowell	447.029	N
7,	Condensing apparatus, E. Theisen Cooking rack, W. Earle Corksciew, C. Hollweg	447,123 446,855 447,185	N N
b- he	Cotton chopper, S. S. Kentet al. Coutling. See Car coupling.	446,858 447,046	000
in ar ke	Condensing apparatus, E. Theisen Cooking rack, W. Earle Corksciew, C. Hollweg Corset, E. C. Foster Cotton bailing apparatus, H. Rembert. Cotton bailing apparatus, H. Rembert. Cotton bailing apparatus, H. Rembert. Coupling. See Car coupling. Cracker cutting machine. W. A. Huil. Crane, traveling, J. H. Gieiner. Crimping board, G. E. Shaw Cryolite, making artificial, E. Richters Cultivator and seed drill, combined, C. C. Hunter. Cut-out, S. D. Field. Cut-out, automatic. J. P. Tirrel' Cutter. See Band cutter. Plug jand socket cutter.	447.113 447.281 447.119	0
re	Cultivator and seed drill, combined, C. C. Hunter. Cut-out, S. D. Field	447,188 446,966 446,902	000
	Cutter. See Band cutter. Plug and socket cut- ter. Die stock and die, J. S. Fletcher	446,915	F
	Die stock and die, J. S. Fletcher	447,034 447,090 446,964	P
of a- he	Drill. See Rock drill. Drill in to pattern, machine for, P. Pryibil. Drinks, shaker for mixing, C. W. Fox Duet collector, J. K. Hallowell.	447,014 447,069	P
n- A	Dye, red, P. Julius	447,189	Ī
all ns	Electric circuit regulator, T. M. Edwards Electric heater, J. I. Ashbaugh	447,177	F
or 88,	Electric motor mechanism, S. E. Mower Electric signal device, magneto, N. B. Ginochlo Elevator, W. H. Jones Elevator indicator, E. Whitlock Envine. See Gas engine. Wind engine.	417,045 447,117 446,907	F
88 .d-		446 009	F
	By appraing apparatus, K. Theisen. Feed water heater, L. Norton Feed water heater and condenser, J. F. Fife Feed water purifier, Titus & Werner. Fence and tree protector, combined, Blaine &	446,913 447,018	F
S	Fence, nortable rail C. B. Wynegar	447,852 447,223	P
	Fence post, J. B. (leaveland Fence post, J. M. Rife Fence, straight rail, D. & S. R. Port Fertilizers, making phosphatic, J. Van Ruymbeke		Ė
	tile, C. De la Roche	446,983	F
E.	File cutting machine, J. Erlenwein	447,152 447,149 447,067	H
3.]	Filter press, Coes & Reiss Finger bar, A. J. Inglis Finisher press, J. H. McGowan Finishing or cleaning surfaces, apparatus for, A.	447.024 447,245 447.003	H
236	Fire alarm, pneumatic, A. Goldstein.	446.863	H H
908 893 921	Kliman Floors or the surface of lumber, machine for dressing, R. L. Patterson Flushing tank, J. Totham Flushing raicky 11, W. Steeber	447,160	F
195 064	Forgings non-circular in cross section, making	446,903 447,121 446,934	F
004 271 148	rolled, G. F. Simonds. Frame, See Sewing machine quilting frame. Fuel, artificial, 1. C. Bandman. Fuel, artificial, R. J. Schimper Furnace. See Muffle furnace. Ore roasting fur-		H
	1 See withe fulluce. Of LOSSIUK Int-		, t

<i>6</i> • • • • • • • • • • • • • • • • • • •	<u> </u>
Ball. See Bowling ball. Band cutter and feeder, W. G. Huntington 446,973	Furnace, M. C. Hawley
Battery. See Galvanic battery. Secondary battery.	Furnace, M. C. Hawley
tor plugs for, A. F. Madden	Gauge for determining the radius of curvature, J. T. Brayton. 447.276 R. Galvanic battery, M. W. Robinson. 447.016 R. 447.016 R.
Battery elements, machine for moulding separator plugs for A. F. Madden	Gauge W. Ricketts 447,288 R. Gauge for determining the radius of curvature, J. T' Brayton 447,266 R. Galvanic battery, M. W. Robinson 447,267 R. Game apparatus, W. F. Jones 447,247 R. Game beard, J. W. Sutton 447,088 Game board, J. W. Sutton 447,088 Gament fastening, J. Leotin 447,067 R. Gas engine, B. H. Coffey 447,067 R. Gas retort discharging apparatus, G. A. Bronder, 447,062 R. Gas engine, B. H. Coffey 447,062 R.
Bell for grain elevaters, etc., alarm, G. W. Nye 446,881 Berth and seat for ships or railway cars, J. G. W. Aldridge	Garment fastening, J. Leotin
Bic Poles S. A. Donnelly 447,020 Bic Poles S. A. Donnelly 447,224 Bic Poles Support, J. M. Anck 447,125 Binding post, C. A. Lieb 446,871 Bird case per ch. J. F. Sweeney 447,025	Gast February of Section 1987 And Stonders 1982 Regarder Sec Car platform gate. Railway gate. Gate, C. H. Fidler 447.042 F. Gate, J. F. A. Millerick 447.042 R. Gate, J. F. A. Millerick 447.042 R. Gearing, frictional reversing, F. H. Richards. 446,927 R. Glazier's window lead, muchine for cutting, W. C. Minns
	Gate, W. H. Swogger 447.122 R Gearing, frictional reversing, F. H. Richards. 446,927 R Glazier's window lead, muchine for cutting, W. C.
Blind stile boring and mortising machine, W. C. & J. A. Aycock	Minns
dicating the force of a, A. J. C. Graf	i Governor, gream engine, K. S. Bowen 447.039 B
Boiler cleaner, S. C. La Hatt	Grain cleaning machines, roller mills, etc., ffeed device for. W. Huntley 447,072 Rorape trimming and packing table, J. H. Eding-ton 447,041 Roranderson, J. R. Kibler, 446,990 Roranderson, 446,990 R
Bolt, Stroh & McIntosh	Guard. See Sewing machine thread guard. Some carriages recoil check for disappearing J
Book case, roller shelf, Babbitt & Harvey	B. G. A. Canet
Boring machine, G. J. Campbell 447,176 Bottle filling machine, W. H. Baldinger. 447,176 Bottle machine, W. H. Baldinger. 447,176 Bowl or wash basin, set, S. P. Crosswell. 447,232 Bowling ball, S. S. Harman. 447,011 Box. See Axle box. Ckrarette box. Fire alarm	
Bowling ball, S. S. Harman	Harrow, M. Sattley
Box corners, machine for attaching stays to, F. H. Beach 447,225 Box lifter, F. P. Morrison 446,924 Braiding machine, J. Trecurtha 447,226 Braiding machine, J. Trecurtha 447,226	Hay stacker, M. Machin Heater. See Electric heater. Feed water heater. Milk heater.
Braiding machine, J. Tregurtha. 447,282 Braiding machine carrier, P. J. A. Fornander. 447,108 Braiding machine take-up, P. J. A. Fornander. 447,107	Heating and ventilating the walls of buildings, W. Benner 446.848 Heating apparatus, electro, C. K. Caroenter 447.023 Heating device, H. Ingersoll 447.115 8
Brake. See Air brake. Car brake. Rail brake.	Heating devices, vacuum core for electrical, H.
Brick kiln, J. B. Griswold. 447,151 Bricks, composition for coating, J. Miller. 446,87 Bridge W. B. Wise. 447,222 Bridle bit, M. J. Daly. 440,444 Fronzing or other machines, fly delivery for, A. N. Buchanan	Heel nailing machine, J. H. Pope
Fronzing or other machines, fly delivery for, A. N. Buchanan. 447.101	Hook, R. & J. Ingal 446,946 S Horse detacher, J. M. Harden 46,868 S Ice planing and corrugating apparatus, G. A. Birch 447,000 S
Broom, T. J. Thorp	Indicator. See Cash indicator. Elevator indica-
Building and water tower, combined, W. F. Smith 446.897 Burnishing machine, C. W. Miller. 446,923	tor. Iodine with thymol, compound of Messinger & State of Wortmann
Button, separable, R. H. Lewis 447,249 Calendar, J. D. Watters 447,171 Calendar, and time cord combined perpetual C	Iron. See Smoothing iron. Iron globule, chilled, B. C. & R. A. Tilghman 446,988 Iron globules, manufacturing chilled, B. C. & R. & Gor, J. &
M. Hamilton	A. Tilghman A. Tilghman Ironing table, E. W. Nothstine 100 100 100 100 100 100 100 100 100 10
Car brake, E. M. Barnes 447,272 Car brake, Pool & Beals 446,181	Booth 447,226
Car coupling, F. A. Johnson 447.154 Car coupling, J. E. Mullins 46,976	A. Wilmot
Car coupling, C. W. Smith 557.165 Car coupling, Weeks & Bush 417.035	Lamp, self-loading magnesium flash, D. H. Hous- ton
Can. See Milk can. 446,883	Lamp socket, incandescent electric. J. M. Orford. 446,995 : S Lamps, apparatus for flashing and exhausting in- candescent electric. Nickerson & Berrenberg. 447,256 S
Car, Tallway, L. P. Farmer. 347,055 Car, Tallway, W. W. Green 447,055, 447,054 Car replacer, Reynolds & Perkins 446,951	candescent electric, Nickerson & Berrenberg. 447,256 S Lamps, lantern for regenerative gas, L. A. Cooper. 446,991 S Latch, Matson & Phillips. 447,855 S
Car ventilating device, railway, R. W. Waldrop 447,216 Car ventilator, G. Hogg	Weich hart 446,939 S Lathing, metallic, I. I. Sagendorph 447,084, 447,085
Cars, current controlling device for electric railway, J. C. Chamberlain	Leather staking machine, E. Hayes
Carriage corner irons, process of and apparatus for straightening, E. C. Porter	Lifter. See Box lifter. Transom lifter.
Carrier and cleaner, J. 11. R. Wendel	Light by magnesium or other glowing materials, producing intense, J. W. C. C. Schirm
Carrier, See Braiding machine carrier. Carrier and cleaner, J. H. K. Wendel	Locometives, extension smokestack for, H. D. Thubar
logment, apparatus for the calcination of 1.	Loom for weaving chenile fabrics. A. Sinclair. 446,896 T. Loom positive shuttle motion, J. W. Babcock. 447038 T. Lounge, C. Mee. 446,874 J. Lubricating device, G. T. Reiss 447.015 T.
Krottnaurer	Lubricator, See Sight feed lubricator. Truck Tubricator, Mail bag catcher. Winsor & Cummings 447.094
Chucks, automatic feed mechanism for, J. B. Clyne 447,144 Churn, J. P. Lynott 446,945	Malt liquor, making, J. Griffiths
Clyare to See Boller cleaner. Boot, or shoe cleaner. See Boller cleaner. Boot, or shoe cleaner. Clock: both see Boot, or shoe cleaner. Cleaner. Saw cleaner. Boot, or shoe cleaner. Clock: both see Boot, or shoe boot, or shoe boot, or shoe boot, or shoe cleaner. Clock: both see Boot, or shoe	
er. Saw cleaner. Clock, independent electric, W. J. Dudley	Measuring machine, foot, A. S. Adler 44,198 1 Mechanical movement, K. C. Kunkle 44,197 1 Metal articles, device for knurling the surfaces of, G. F. Simonds 446,833 7 Metal capeules, machine for making, F. W. Perry 447,137
J. W. Steelbrooke. 446,937 Clothes drier, J. Dexelleke 446,853 Clutch, W. A. Murphy 447,013 Clutch mechanism, S. K. White	Meter. See Oscillating meter.
Clutch mechanism, S. K. White	Walker 446,876 7 Milk can. J. E. Morrison 446,876 7 Milk curd, preparing food from, A. W. Rehnstrom 446,887 7 Milk better J. L. Longson 446,887 7 Milk better J. L. Longson 447,877 7
Morgan	Milk heater, J. L. Jonsson
Coke from ovens, apparatus for extracting, T. Smith	Motor, Dee Breatte motor, Kanway gate motor.
Condensing apparatus, E. Theisen	Sewing machine motor. Motor, L. Eynard. Mowing machine divider, F. J. J. Schuett. Muffle furnace C. H. Land. 446.947
Corset, &. C. Foster	Music leaf turner, E. W. Burnham.
Cutton chopper, S. S. Kentet al. 447,046 Coupling. See Car coupling. Cracker cutting machine. W. A. Huil. 447,113 Crane, traveling, J. H. Greiner. 447,281	Sewing machine motor. Motor, L. Eynard. Mowing machine divider, F. J. J. Schuett. 446,945 Muffle furnace, C. H. Land. Music leaf turner, E. W. Burnham. 447,140 Nut, lock, L. H. Young. Grence, breech-loading, J. B. G. A. Canet. 447,223 Ore concentrator, M. Castelnau. Ore drying and pulverizing apparatus, J. K. Hallowell. Jowell. Jowell. 446,943 Ore masting furnace, G. N. Phelps.
Cracker cutting machine, W. A. Huil. 447,113 Crane, traveling, J. H. Cieiner 447,281 Crimping board, G. E. Shaw 447,191 Cryolite, making artificial, E. Richters 447,083 Cultivator and seed drill, combined, C. C. Hunter 447,188	To to to the state of the state
Cut-out, automatic J. P. Tirrel 446,902 Cutter. See Band cutter. Plug land socket cut-	Ore separating apparatus, J. K. Hallowell. 447,027 Oscillating meter. Thayer & Everett. 447,140 Overshoe, W. F. Wah 447,091 Packing, piston, W. Christie 447,007 Packing, rod, E. G. Shortt. 447,261 Packing, rod, J. Walker 447,761 Paliand wrinker, mop. E. A. Wood 448,009 Paint, fireproof, I. I. Merrell 446,922 Pen holder, T. Nance 447,170 Photographic camera shutter H. B. Norton 446,830 Photographic camera shutter H. B. Norton 446,830 Photographic camera shutter H. B. Norton 446,830 Photographic camera shutter H. B. Norton 446,830 Photographic camera shutter H. B. Norton 446,830 Photographic camera shutter H. B. Norton 446,830 Photographic camera shutter H. B. Norton 446,830 Photographic camera shutter H. B. Norton 446,830 Photographic camera shutter H. B. Norton 446,830 Photographic camera shutter H. B. Norton 446,830 Photographic camera shutter H. B. Norton 446,830 Photographic camera shutter H. B. Norton 446,830 Photographic camera shutter H. B. Norton 446,830 Photographic camera shutter H. B. Norton 446,830 Photographic camera 446,840 Photographic camera
f.er.	Packing, rod, E. G. Shortt
Die stock and die, J. S. Fletcher	Paint, fireproof, I. I. Merrell
Drill. See Rock drill. Drilling to pattern, machine for, P. Pryibil	Piano and organ, combined, J. A. Smith 447,120 V Piano packing device W. Hay 447,112 V Pillow sham holder, W. L. Peevers 447,118 V
Duet collector, J. K. Hallowell	Piano packing device. W. Hay 447.112 Pillow sham holder, W. L. Peevers 447.118 Pine needles, machine for fibrillation of, A. Scott 447.206 Pipes, etc., air space covering for steam, Costigan & Valleau 447.243 Pipes, covering for steam or hot water, C. C. Gil-
Electric circuit regulator, T. M. Edwards	
Electric motor mechanism, S. E. Mower	Planter and fertilizer distributer, combined cotton seed, J. M. Orr
Elevator, W. H. Jones 447,117 Elevator indicator, E. Whitlock 446,907 Engine. See Gas engine. Wind engine. Engine reversing gear, steam, C. M. Farrar. 446,992	Plastic material, machine for shaping, Hull & Boyer. 447,132 V
Byaporating apparatus, K. Theisen. 447,219 Feed water heater, L. Norton. 447,319 Feed water heater and condenser, J. F. Fife. 446,933 Feed water purifier, Titus & Werner. 447,018 Fence and tree protector, combined, Blaine	Pilers, L. Hugoniot-Tissot. 444,1972 Plow, T. G. Eason. 46,985 Plow and fertilizer distributer, combined, W. F.
reed water purifier, Titus & Werner. 447,018 Fence and tree protector, combined, Blaine & South 446,849	Ding and gookst cutton and shouldforthe same
South 446,849 Fence, flood, J. A. Davis 447,822 Fence, portable rail, C. B. Wynegar 447,223 Fence post, J. B. (leaveland 447,234 Fence post, J. M. 247,234	Plug and socket cutter and chnckffor the same, N.P. Stevens
Fence, straight rail, D. & S. R. Port	Power mach ine. Glassbrook & Emmer
tile, C. De la Roche	Printing of textile fabrics, doctor employed in the, J. Archer
File cutting machine, J. Erlenwein	Projectile for ordnance, explosive, J. J. Moore 446,975 A Projection. See Fence and tree protector. Pulley, friction clutch, Waterous, Jr., & Peel 447,217
Filter press, Coes & Reiss 447.024 Finger bar, A. J. Inglis 447.245 Finisher press, J. H. McGowan 447.003	Pulley. return, L. H. Paul
Finishing or cleaning surfaces, apparatus for, A. Bryce	Pump, vacuum, Berrenberg & Nickerson447.273, 447.274 F
Fire alarm signal box, non-interference, W. H. Kiiman 447.074 Floors or the surface of lumber, machine for	Pumping engines of hydraulic forging or other
dressing, R. L. Patterson. 447,160 Flushing tank, J. Totham. 446,903 Fly paper, sticky, H. W. Stecher 447,121	presses, governing gear for the, C. Davy. 447,147 Puzzle, Z. F. Lightner 446.872 Rack. See Cooking rack, Show rack. Radiator, steam, C. Otis. 447.241 C.
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Fuel, artificial, I. C. Bandman	Railway chair spike, W. C. Wood 447,288 (Railway conduit, underground, C. C. Gilman 446,861 Railway conduits, apparatus for cleaning W
Furnace. See Muffle furnace. Ore roasting furnace. Roasting and smelting furnace.	Heckert

ĺ	Railway crossing, E. B. Entwisle. Railway drawing head, W. C. Peirce. Railway, electric, R. M. Hunter. Railway, elevated, D. B. Weaver.	447.130 447.200 447,283
	Railway, elevated, D. B. Weaver Railway frog. M. A. Dudley Railway gate, A. J. McDonald	447,172 447,235 447,080
i	Railway gate motor, McDonaid & Brent	446.917
ļ	Raiway system, electric. C. J. Van Depoele	416.904 447,21.5
	Railway tre and chair, metallic, H. P. Sweet Railway trolley, electric, S. H. Short Razor strop, C. L. Holland	446,899 446,431 447,181 447,213
	ington & Roberts C. J. Van Depoele Railway teand chair, metallic, H. P. Sweet Railway trolley, electric, S. H. Short. Razor strop, C. L. Holland Razor strop, J. R. Torrey. Reel. See Twine reel. Register. See Cash register.	447,213
1	Register sheet, E. J. Richard Regulator. See Electric circuit regulator. Wind- mill regulator.	446.952
ĺ	Rein Supporting ring, barness, M. C. Gamble	447,044
	Reservoirs, device for disposing of surplus water impounded in E. P. Roberts Revolver lock, Weeks & Foehl. Rifting machine, C. W. Sponsel. Rig. See Rein supporting ring.	447.083 447.219 446,898
	Road bed drain and safety tie, metallic, H.P.	446,900
	Sweet Roasting and smelting furnace, W. Heckert et al Rock drill, multiple, C. J. Van Depoele. Safe armor, F. M. Williams. Safe bolt retracting device, F. M. Williams. Safe bolt retracting device, F. M. Williams.	446.971 447.214 446,941
	Safe bolt retracting device. F. M. Williams Safety switch. Hopkins & Bryant Sand screen, Presscott & Bennett	446,940 447,186 447,162
Ì	Sash fastener, W. E. Dixoli	447,068
ĺ	Saw clearer, Fin, J. W. Webb Sawmill dog, W. A. Pannebaker. Sawmill, gang, T. S. Wilkin. Saw swage, D. B. Hanson. Scale weight, A. C. Mott.	447.218 446.979 447.092 447.111
		447,136
	Screwdinver, push, E. Brown Screw machine, C. M. Spencer Screw machine slotting attachment, A. H. Eddy. Screw, temper, L. D. Mason.	447,017 447,017 447,010 446,994
i	Sciew interded folled follelings, method of and	
	apparatus for making, G. F. Simonds. Screw wrench, J. Ryan Seat spring for cushioned seats, W. Westermann. Secondary battery, S. C. C. Currie. Sewing machine, H. H. Cummings Sewing machine feeding mechanism, W. A. Mack Sewing machine motor, F. L. Clark. Sewing machine presser foot. W. A. Mack	447,163 447,142 447,279
	Sewing machine, H. H. Cummings. Sewing machine feeding mechanism, W. A. Mack	447,008 447,251
	Sewing machine presser foot, W. A. Mack	446,964 447,252 447,169
	A. Mack Sewing machine take-up, 11. H. Cummings	447.258 441.009
	A. Mack. Sewing machine take-up, 11. H. Cummings. Sewing machine thread guard. J. H. Cutten. Shell, Cayley & Courtman. Shoe upper, E. Waldschmidt. Shot screening machine, G. T. Haring. Show rack, window, J. E. Briggs. Sight feed lubricator, E. Lunkenheimer. Signal. See Railway signal.	447.229 447.263
	Shot screening machine, G. T. Haring Show rack, window, J. E. Briggs Sight feed lubricator, E. Lunkenbeimer.	446,867 446,982 446,993
,	Signal apparatus, municipal, B. J. Noyes 447,060,	417.061
	Signal box. B. J. Noyes. Signaling apparatus, police, B. J. Noyes 447,058. Smoot hing 170n, J. H. Toof. Spectacles, bifocal, G. H. Cline	447.059
,	Spinning spindle support, R. White	447,049 447,128 446,999
;	. Stamp pads, inker for rubber, G. J. B. Rodwell	446.889 447,089
	Stamp, perforating, A. Von Brandis Stamps, apparatus for attaching adhesive, C. W. Tobey. Steam boiler, M. Levi	447.212 447,248
•	Store service apparatus, J. R. Haight	446.930 447.178
,	Stove, feed cooking, Montague & Bailey Stovepipe fastener, F. A. Snow Strap and buckle shield. G. H. Nicholls	446.879 447.168 447,158
	Strawstacker, J. M. Smith Surveyor's plotting instrument, P. O'Marra,, Switch, See Safetr switch.	446,955 446,882
;	Ironing table.	
	Tapping mains, machine for, J. Brankey Telegraph apparatus, J. A. Parker Telegraph transmitter, S. W. Smith	447,001 447,198
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	Tires and fellies of wheels of road vehicles, ma- chine for drilling the, il. Faske	446,869 446,856
•	Tobacco and other substances, machine for cut- ting, H. Winterwerber	447,095 447,242
	Tobacco pouch, W. J. Cussen. Tool handle attachment, E. W. Fantet al. Tov. E. Del Valle.	447,109 447,052 447,294
	Toy, S. F. Simpson Transmitter circuit, A. C. White	447,164 447,220
	Transom lifter, G. W. Hamilton. Tray, A. Wiggers	446,865 447,221
	Trolley line cross-over, S. H. Short	447,208 446,985
•	Truck driving mechanism, car, C. W. Hunt. Truck lubricator, locomotive, W. McIntosh Trunk, W. G. Russell, Jr.	447.114 447.081 446.890
,	Thrashing machine, G. Frick Thrashing machine, F. F. Landis Tie. See Railway tie Timber bending machine, Ranke & Yergens. Time lock, electric, M. I. Flowers. Tire tightener, Hewitt & Buence. Tires and fellies of wheels of road vehicles, machine for drilling the, I. Faske Tobacco and other substances, machine for cutting, H. Winterwerber. Tobacco pouch, W. J. Cussen. Tool hande attachment, K. W. Fantet al. Toy, S. F. Simpson. Trailsmitter circuit. A. C. White. Transom lifter, G. W. Hamilton. Tray, A. Wiggers Trigger, set. O. A. Bremer Troiley line cross-over, S. H. Short. Troiley wire hanger, Macloskie & Baker Truck during mechanism, car, C. W. Hunt. Truck lubricator, locomotive, W. Melntosh. Trunk, W. G. Rissell, Jr. Trunk lock, J. Krieger Turb Carbbs & Emens. Turn buckle, W. B. Middleton.	447,057
•	Turn buckle blanks, roll for rolling, W. B. Mid- dleton	447,237
)	Twine, machine for making compound paper and jute, J. W. Perkins. Twine reel, J. B. Holmes	446,926
3	Twine, machine for making compound paper and jute, J. W. Perkins Twine reel, J. B. Holmes. Type distributing holder, A. B. Adams. Type writer drep cabinet, W. C. Behrens. Typewriting machine, T. F. Bourne. Typewriting machines, ribbon feed reversing mechines in for, J. Pusey. Typewriting machines, type cleaning brushfor, F. Van Fleet.	447.124 446,913
;	Typewriting machines, ribbon feed reversing mechanism for, J. Pusey	446,886
	F. Van Fleet	447,141 447,211
1	F. Van Fleet. F. Van Fleet. F. Van Fleet. F. Van Fleet. Vaporizer, J. P. Robert. Vaporizer, J. P. Robert. Vaporizer of toaming concentrated solutions, perhod of and apparatus for separating, J.	446,953
ĺ	Vehicle suring gear, E. Funk	447.258 447.109 447.005
)	Vehicle top, Zoller & Burrows Vehicle wheel, E. Woolson Vehiclede, Archer & Bowley	447,097 446 910
Š	Velocipede, T. W. Jamison. Velocipede pedal, G. W. Cushman. Vending mechine O. A. Whooler	449,246 447,145
	method of and apparatus for separating, J. Patten Vehicle running gear, F. Funk Vehicle spring, D. M. & T. H. Parry Vehicle spring, D. M. & T. H. Parry Vehicle top, Zoller & Burrows Vehicle wheel, E. Woolson Velocipede, Archer & Bowler Velocipede, Archer & Bowler Velocipede pedal G. W. Cushman Vending machine, O. A. Wheeler Vending machine, coin-controlled, F. J. Wood Ventilstor. See Car ventilator. Veasels, shelter for watchmen on, H. L. Meadows Voting booth, Babcock & Gourlay Wagon dump and elevator, J. S. Kidd	447,267
3	Voting booth, Babcock & Gourlay. Wagon dump and elevator, J. S. Kidd447.190.	447,193 447,239 447,191
5	Washing machine, G. P. Walter Washing machine, G. W. Wheatly Weighing apparatus, liquid, J. P. Baldwin	446.958 446.906 446.844
	Welding apparatus, electric, M. W. Dewey Welding, method of and apparatus for electric, Lemp & Schmidt	447,104
,	Wheel. See Vehicle wheel. Wind engine. M. C. Chapman	447,066
3	Windmill regulator, Stover & Ziegler. Wood, means for joining, E. J. Fletcher.	447,139 446,914
5	Welding apparatus, electric, M. W. Dewey. Welding, method of and apparatus for electric, Lemp & Schmidt. Wheel. See Vehicle wheel. Wind engine. M. C. Chapman Windmill pump attachment, U. Yoder Windmill regulator, Stover & Ziegler. Wood, means for joning. E. J. Fletcher. Wood polishing machine, J. L. Perry. Wood surfaces, finishing, A. Bryce. Wrench. See Screw wrench.	447,047 446,962
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;	TRADE MARKS.	
•		19.064

TRADE MARKS.	
Ammonia preparations for medicinal purposes,	
Chemische Fabrik auf Aktien (vorm. E.	10 064
Schering) Baking powder, E. F. Jones Chemical Company	19,072
Beef, hog, and sheep products, including lard,	10 100
fresh and cured, F. Whittaker & Sons	19.102
Button fasteners, Anchor Button Fastener Com-	10,004
pany Cement and plaster, Silicon Wall Plaster and	19,061
Manufacturing Company Plaster and	10.006
Chemicals for increasing the combustion of fuel.	19,000
Standard Coal and Fuel Company	19.081
Cigars, J. D. Meyer	19,100
Cordials, Hulstkamp, Zoon & Molyn	19.067
Corsets, waists, and shoulder braces, E. J. Swart-	
wout	19.093
Cutlery for household use, Landers, Frary &	10 001
Fabrics of cotton, wool, or mixed cotton and wool,	1.7.031
Smith. Hogg & Gardner	19,080