Business and Lersonal.

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.

Am. Twist Drill Co., Meredith, N. H., make Pat. Chuck Jaws, Emery Wheels, Grinders, automatic Knife Grinders. The Chester Steel Castings Co., office 407 Library St., Philadelphia, Pa., can prove by 20,000 Crank Shafts 15,000 Gear Wheels, now in use, the superiority of their Castings over all others. Circular and price list free.

Small articles in sheet or cast brass made on contract. Send models for estimates to H. C. Goodrich, 66 to 72 Ogden Place, Chicago, Ill. Mention this paper.

Pays well on small investment. - Stereopticons, Magic Lanterns, and Views illustrating every subject for public exhibitions. Lanterns for colleges, Sunday-schools, and amusement. 116 page illustrated catalogue free. McAllister, Manufacturing Optician, 49 Nassau St., N. Y.

Calcium Light Apparatus and Stereopticons at low prices. C. Beseler, 218 Centre Street, New York,

Design Patent for Sale.—Handsome Hanging Vase Address Mrs. Rose L. Allen, Romolo, Centre Co., Pa. From Galveston City Railroad Co., Galveston, Sept. 22, 1882.

To H. W. Johns Mfg Co., 87 Maiden Lane, N. Y.
Gentlemen: By mail of this date I send you photograph of our Beach Pavilion on which was used your iquid Paints, and I am pleased to advise you that same have given perfect satisfaction.

Very respectfully, W. H. Sinclair, President. Paragon Drawing Paper is the only reliable. Send for samples. Keuffel & Esser, 127 Fulton St., New York. Garmore's Artificial Ear Drums for relief of partial or entire deafness. Invented by one who has been deaf thirty wears. Simple and scientific in construction; not observable in use. Send for circular. John Garmore, S. W. cor. 5th and Race Sts., Cincinnati, O.

American Fruit Drier. Free Pamphlet. See ad., p. 237 Fire Brick, Tile, and Clay Retorts, all shapes. Bornerg & O'Brien, M'f'rs, 23d St., above Race, Phila., Pa.

Drop Forgings of Iron or Steel. See adv., page 236. For best Portable Forges and Blacksmiths' Hand Blowers, address Buffalo Forge Co., Buffalo, N. Y.

Brass & Copper in sheets, wire & blanks, See ad. p. 286 The Improved Hydraulic Jacks. Punches, and Tube Expanders. R. Dudgeon, 24 Columbia St., New York. Diamond Tools. J. Dickinson, 64 Nassau St., N. Y.

Eagle Anvils, 10 cents per pound. Fully warranted Bostwick's Giant Riding Saw Machine, adv., page 238.

Tight and Slack Barrel Machinery a specialty. John ood & Co., Rochester, N. Y. See illus. adv. p. 236.

Pure Nickel Anodes, Nickel Salts, and all Polishers Supplies. Greene, Tweed & Co., New York,

For Mill Macb'y & Mill Furnishing, see illus. adv. p.236. See New American File Co.'s Advertisement, p. 238.

Renshaw's Ratchet for Square and Taper Shank Drills. The Pratt & Whitney Co., Hartford, Conn.

Woodwork'g Mach'y. Rollstone Mach. Co. Adv., p. 238. Trevor's Patent Key Seat Cutter. Trevor & Co., Lock port. N. Y. See page 237.

Wanted.-Liberal inducements and facilities for locat ing large iron works. Address Iron, Manchester, N. H. rials. Keuffel & Esser, New York.

25" Lathes of the best design. G. A. Ohl & Co., East Newark, N. J.

50,000 Emerson's Hand Book of Saws. New Edition. Free. Address Emerson, Smith & Co., Beaver Falls, Pa. Cope & Maxwell M'I'g Co.'s Pump adv., page 220,

The Berryman Feed Water Heater and Purifier and Feed Pump. I. B. Davis' Patent. See illus. adv., p. 220. For Pat. Safety Elevators, Hoisting Engines, Friction Clutch Pulleys, Cut-off Coupling, see Frisbie's ad. p. 222. Red Jacket Adjustable Force Pump. See adv., p. 220. Mineral Lands Prospected, Artesian Wells Bored, by Pa. Diamond Drill Co. Box 423, Pottsville, Pa. See p. 220. Common Sense Dry Kiln. Adapted to drying of allmaterial where kiln. etc., drying houses are used. See p.222. 4 to 40 H. P. Steam Engines. See adv. p. 220.

Collection of Ornaments.-A book containing over 1,000 different designs, such as Crests, Coats of Arms, Vignettes, Scrolls, Corners, etc., will be mailed free on receipt of \$1. Address Palm & Fechteler, 6 West 14th Street, New York.

Drop Forgings. Billings & Spencer Co. See adv., p. 205 C. B. Rogers & Co., Norwich, Conn., Wood Working Machinery of every kind. See adv., page 205.

Lightning Screw Plates, Labor-saving Tools. p. 206. Engine, 10s to 50 horse power, complete, with governor, \$250 to \$550. Satisfaction guaranteed. Six hundred in use. For circular address Heald & Morris (Drawer lightly upon the greasy spot and allow it to soak the oil 127). Baldwinsville. N. Y.

Improved Skinner Portable Engines. Erie, Pa.

Combination Roll and Rubber Co., 68 Warren street, N. Y. Wringer Rolls and Moulded Goods Specialties. Pure Water furnished Cities, Paper Mills, Laundries, Steam Boilers, etc., by the Multifold System of the Newark Filtering Co., 177 Commerce St., Newark, N. J. Latest Improved Diamond Drills. Send for circular to M. C. Bullock Mfg. Co., 80 to 88 Market St., Chicago, Ill.

First Class Engine Lathes, 20 inch swing, 8 foot bed, now ready. F. C. & A. E. Rowland, New Haven, Conn.

Ice Making Machines and Machines for Cooling Breweries, etc. Pictet Artificial Ice Co. (Limited), 142 Greenwich Street. P. O. Box 3083, New York city.

Jas. F. Hotchkiss, 84 John St., N. Y.: Send me your free book entitled "How to Keep Bollers Clean," containing useful information for steam users & engineers. (Forward above by postal or letter; mention this paper.) Steel Stamps and Pattern Letters. The best made. J. F.W.Dorman, 21 German St., Baltimore. Catalogue free. Rubber Hose, Linen Hose, lined and unlined, all

Supplement Catalogue.—Persons in pursuit of information on any special engineering mechanical, or scientific subject, can have catalogue of contents of the Sci-ENTIFIC AMERICAN SUPPLEMENT sent to them free The SUPPLEMENT contains lengthy articles embracing the whole range of engineering, mechanics, and physi cal science. Address Munn & Co., Publishers, New York.

Machinery for Light Manufacturing, on hand and built to order. E. E. Garvin & Co., 139 Center St., N. Y Wood-Working Machinery of Improved Design and Workmansbip. Cordesman, Egan & Co., Cincinnati, O. Presses & Dies. Ferracute Mach. Co., Bridgeton, N. J. ses & Dies (fruit cans) Ayar Mach. Wks., Salem, N.J.

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.

No attention will be paid to communications unless accompanied with the full name and address of the writer.

Namesand addresses of correspondents will not be given to inquirers.

We renew our request that correspondents, in referring to former answers or articles, will be kind enough to name the date of the paper and the page, or the number of the question.

Correspondents whose inquiries do not appear after a reasonable time should repeat them. If not then published, they may conclude that, for good reasons, the Editor declines them.

Persons desiring special information which is purely of a personal character, and not of general interest, should remit from \$1 to \$5, according to the subject, as we cannot be expected to spend time and lahor to obtain such information without remuneration

Any numbers of the SCIENTIFIC AMERICAN SUPPLE-MENT referred to in these columns may be had at this office. Price 10 cents each.

Correspondents sending samples of minerals, etc., for examination, should be careful to distinctly mark or label their specimens so as to avoid error in their identification.

(1) J. G. M. writes: 1. I have often heard said by men who run machinery (flour mills, for instance) by water power, that (as they express it) the water is heavier at night than in the daytime, and that they are obliged to let the water-gate down at night or else the machinery would run away. A. This question respecting water power has been carefully examined, and there appears to be no good ground for the assertion. 2. Blacksmiths also say that they can get a piece of iron to a welding heat quicker at night then at daytime. Will you please inform me through Notes and Queries if this is really so? A. This is also fallacious. It is an optical deception.

(2) G. C. C. writes: 1. I have a double cylinder engine, 1% inch bore, 2 inch stroke, with a steam pressure of 100 pounds, and 400 to 500 revolutions Schools open.—Send for Catalogue of Drawing Mate- per minute. How large a boat can I propel with it at speed of six to seven miles per hour? A. Hardly large enough to carry one man to run the engine and move the vessel. 2. What diameter and pitch of wheel would I require for the engine and boat? A. Larger and more pitch than the engine would drive. If your boat is small enough to get the speed it would be little more than a large toy. A boat, say 10 or 12 feet long, and 3 or 31/2 feet beam, might be driven by this engine 41/2 or 5 miles per hour.

> (3) W. writes: In Scientific American, No. 43, vol. xlv., first page, Fig. 15, there is a cut of polarized bell. Will you state what size of wire should be used for magnet and what quantity, in length or weight? A. Use No. 34 silk insulated copper wire, and make the depth of the winding equal to the diameter of

> (4) J. L. W. asks: What is the name of the acid that is used in shell stores in polishing and cleaning large shells-is it silicic acid? A Hydrochloric acid diluted with water is also muchused to cleanse them.

> (5) E. McD. writes: By mistake a piece of oiled silk was placed between the leaves of a book and remained there until the oil, thick and soft, had penetrated through several of the leaves. Please inform me how the oil can be removed or hardened without effacing the print. A. Press powdered Fuller's earth out.

> (6) J. O'K. sends the following receipt for whitewash: Lime slaked with a solution of salt in water, and then properly thinned with skim milk from which all the cream has been taken, makes a permanent whitewash for outdoor work, and, it is said, renders the wood incombustible. It is an excellent wash for preserving shingles and for all farm purposes. And asks: Do you know of a better one; or, at least, can you suggest something that is good and more easily obtained than "skim milk?" A. You will find a receipt for a better and cheaper whitewash on page 52, vol. xlv.

(7) T. J. R. asks: Can you give me any information in regard to a whistle that is blown by water pressure? A. Whistles must be blown by air or steam, or any gas under pressure. Any steam whistle that is usually used with steam. Whistles made upon the same principles as organ pipes blow at very low pressures. The water jet would maintain a constant sizes. Greene, Tweed & Co., 118 Chambers St., New York doubt, answer your purpose. This is supposing that Countersink and bit gauge, conical, E. H. Sutton, 264,791 pressure, and with an easy blowing whistle would, no For Power & Economy, Alcott's Turbine, Mt.Holly, N. J. you have considerable head of water and plenty of it; Countersink plug, I. Sharp. 284,776 Presses. Dies. Tools for working Sheet Metals, etc., and may be made by setting up a long pipe perpendicu-

water to separate from it; and from the bottom of the box raise a siphon pipe three or four feet high to carry off the water and maintain the pressure. Into the top of the main pipe throw a jet of water as strong as possible. This jet carries the air down the tube under considerable pressure, and with everything properly proportioned will furnishfrom the chamber sufficient air to blow a whistle.

[OFFICIAL.]

INDEX OF INVENTIONS

FOR WHICE

Letters Patent of the United States Were Granted in the Week Ending

September 19, 1882,

AND EACH BEARING THAT DATE.

[Those marked (r) are reissued patents.]

A printed copy of the specification and drawing of any patent in the annexed list, also of any patent issued since 1866, will be furnished from this office for 25 cents. In ordering please state the number and date of the patent desired and remit to Munn & Co., 261 Broadway, corner of Warren Street, New York city. We also furnish copies of patents granted prior to 1866 but at increased cost, as the specifications not being printed, must be copied by hand.

[————————————————————————————————————	
Airbrakefor railway cars, M. Brockway et al	
Air compressor valve, H. C. Sergeant	264,775
Auger blanks, die for heading, Myers & Andrews,	264,470
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Axle, car, E. B. Orne	264,414
Bale opener, cotton, J. P. Hillard	264 696
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Bed bottom, Dunks & Glody	
Bed bottoms, etc., pressure or weight equalizer	
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Bed bottom spring, S. Cook	
Bed bottom, spring, J. B. Raudenbusb Bed frame, brace, C. C. Clark	
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Bedstead or lounge, metallic, B. J. La Mothe	264,711
Bedstead, wardrobe, J. J. Adgate	264,596
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Bolt heading machine, O. C. Burdict	
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son. Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit for horses, G. W. Ward Bridle bit for horses, G. W. Ward Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, J. Bills. Buckle and rein ring, neck strap, E. G. Latta. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Button fastener, G. W. Prentice. Button fastener, G. W. Prentice. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. 264,749, Can opener, W. E. Brock. Can opener, W. E. Brock. Can opener, W. A. McFarlane. Candlestick and loading tool combined, miner's, C. P. Des Moineaux Carbrake, F. W. Strehlan Car brake, electrical, Paul & Kampfe. Car coupling, J. Coup. Car coupling, W. J. Dawson Car coupling, W. J. Dawson Car coupling, W. J. Dawson Car coupling, W. H. Wigmore. Car, sileping, W. H. Wigmore. Car, sileping and transfer, L. D. Richardson et al. Carriage top brace, C. E. Glebel. Carriage top standard, C. C. Exerton. Case. See Organ case. Watch-case. Cattle fastening and releasing device, J. D. Watters. Chain, carrier, P. F. Hodges Chair, See Invalid reclining chair. Charts, projection of, E. R. Knorr Churn, B. F. Aldridge. Churn power, J. Wilber. Chute, log, W. H. Barnum. Cigarlighter, G. Selden (r). Cieaner. See Boiler cleaner. Slate or blackboard	264.505 264,724 264,496 264,826 264,624 264,613 264,731 264,521 264,521 264,520 264,842 264,520 264,842 264,521 264,836 264,525 264,475 264,481 264,634 264,784 264,784 264,636 264,638 264,638 264,638 264,638 264,639 264,639 264,639 264,639 264,639 264,53
son. Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit for horses, G. W. Ward Bridle bit machine, J. V. Ash Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, J. Bills. Buckle and rein ring, neck strap, E. G. Latta. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Button fastener, G. W. Prentice. Buttonnoles, forming Loo Chew Fan. Cabinet, A. F. Potts. Can opener, W. E. Brock. Can opener, W. E. Brock. Can opener, W. A. McFarlane. Candlestick and loading tool combined, miner's, C. P. Des Moineaux Car brake, F. W. Strehlan Car brake, electrical, Paul & Kampfe. Car coupling, J. Coup. Car coupling, W. J. Dawson Car coupling, H. Menzemer. Car coupling, F. P. Stebbins. Car, hand, G. S. Sheffield. Car, railway wrecking, R. Hitchcock Car, sleeping, W. H. Wigmore. Car, weighing and transfer, L. D. Richardson et al. Carriage top brace, C. E. Glebel. Carriage top standard, C. C. Egerton. Cart, dumping, J. H. Ferguson. Case. See Organ case. Watch-case. Cattle fastening and releasing device, J. D. Watters. Chain, carrier, P. F. Hodges Chair. See Invalid reclining chair. Charts, projection of, E. R. Knorr. Churn, B. F. Aldridge. Churn power, J. Wilber. Chute, log, W. H. Barnum. Cigar lighter, G. Selden (r). Cleaner. See Boiler cleaner. Slate or blackboard cleaner. Clocks, bell striking apparatus for, J. D. William. Clutch, friction, E. J. Sterling.	264.505 264,724 264,496 264,480 264,613 264,613 264,581 264,619 264,619 264,619 264,818 264,520 264,818 264,520 264,818 264,520 264,818 264,520 264,818 264,520 264,818 264,636
son. Bridge, J. Maish. Bridle bit for horses, G. W. Ward Bridle bit for horses, G. W. Ward Bridle bit for horses, G. W. Ward Brush, gun, G. S. Gladding. Brush, tooth, L. Chevallier. Buckle, harness, J. T. Stoll. Bush, roller, P. Brownley. Button, cuff, D. Lubin. Button fastener, C. Erlanger. Button fastener, G. W. Prentice. Button fastener, G. W. Prentice. Buttonholes, forming Loo Chew Fan. Cabinet, A. F. Potts. 264,749, Can opener, W. E. Brock. Can opener, W. E. Brock. Can opener, W. A. McFarlane. Candlestick and loading tool combined, miner's, C. P. Des Moineaux Carbrake, F. W. Strehlan Car brake, electrical, Paul & Kampfe. Car coupling, J. Coup. Car coupling, W. J. Dawson Car coupling, W. J. Dawson Car coupling, F. P. Stebbins. Car, hand, G. S. Sheffield. Car, railway wrecking, R. Hitchcock Car, sleeping, W. H. Wigmore. Car, weighing and transfer, L. D. Richardson et al. Carriage top brace, C. E. Glebel. Carriage top standard, C. C. Exerton. Case. See Organ case. Watch-case. Cattle fastening and releasing device, J. D. Watters. Chain, carrier, P. F. Hodges Chair, See Invalid reclining chair. Charts, projection of, E. R. Knorr Churn, B. F. Aldridge. Churn power, J. Wilber. Chute, log, W. H. Barnum. Cigarlighter, G. Selden (r). Cleaner. See Boiler cleaner. Slate or blackboard cleaner. Clocks. bell striking apparatus for, J. D. William. Clutch, friction, E. J. Sterling.	264.505 264.724 264.496 264.480 264.624 264.613 264.613 264.619 264.826 264.624 264.619 264.836 264.526 264.6750 264.818 264.636

Coin detecter, counterfeit, J. B. Atwater..... 264,431

Hook. See Mousing hook.

Injector, M. D. Strickland.....

Inkstand, G. H. Henkel...... 264.695

Inkstand, Royce & Hafner. 264,768
Instrument for treating piles, W. Wöltge...... 264,813

Crank and crank fastening, F. F. Adams	
Crank attachment, C. H. Miller	
Culinary boilor, L. McLellan (r)	
Culinary use, compound for, G. S. Marshall	
Cultivator, J. J. Morris	264,554
Cutter. See Fodder cutter. Oatmeal cutter.	
Cutting and punching press, Stevenson &	
Plunkett Dental plugger, G. Rehfuss et al	
Desk, A. F. Potts	
Detecter. See Coin detecter.	
Digger. See Potato digger.	004 540
Disintegrating machine, fodder, W. A. Naylor Disintegrating machine, grass, W. A. Naylor	
Display stand, A. F. Pott	264,751
Door check, elastic, H. H. Burrill	264,438
Door plate, letter box, and beli pull, combined, C. H. Parmenter	264 561
Draught equalizer, D. M. Harkrader	264,691
Drawer pull, G. W. Tucker (r)	10,201
Dress shield, I. B. Kleinert	264.463 264.777
Electric distribution and translation system, T.	
A. Edison.	
Electric lights and conductors, support for, G. H. Allen	
Electric machine, dynamo, E. W. Siemens	264,780
Electricmachine, dynamo or magneto, T. A. Edi-	
son	
son	
Electric wire cables, conduit for underground, J.	
Mackintosh Electricity, system of conductors for the distribu-	
tion of, T. A. Edison	
Elevator. See Automatic elevator. Cotton ele-	-
vator.	984 1945
Elevator, G. R. Peare Engine. See Pumping engine. Rotary engine.	#v±, (±i)
Wind engine.	
Evaporating saccharine juices, apparatus used	
in, C. C. Haynes	404 ₁ 094
Eye wash, W. C. Squier	264,783
Fare register, E. Chesterman	
Faucet, J. H. Seabury	
Feathers for dusters, etc., method of and machine	-
for preparing, C. W. & E. T. Nichols	
Feeding water to locomotive boilers, W. H. Turrentine	
Fence barb, wire, F. W. Brainerd	264,436
Fence, barbed wire, J. M. May	
Fence palings, machine for barbing, W. H. H. Frye	
Fence post, Ambrose & Cole	264,504
Fence wire with metal, process of and apparatus	
for coating barbed, E. H. Hill	204,080
Frye	264,683
Figures in relief on various substances, production of, M. W. Samuel	964 771
Filter and cooler, combined water, T. V. Curtis	
Filtering and purifyingwater in wells, G. Koep-	
pel	264,403
Firearm, breech-loading, W. Mason	264,727
Firearm, breech-loading, W. Mason	264,727 264,772
Firearm, breech-loading, W. Mason	264,727 264,772 264,827
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton. Flour bolt or dresser, L. B. Fiechter	264,727 264,772 264,827 264,834 264,680
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling.	264,727 264,772 264,827 264,834 264,680 264,611
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton. Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling. Fodder cutter, E. Wagoner.	264,727 264,772 264,827 264,834 264,680 264,611 264,800
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton. Flour bolt or dresser, L. B. Flechter Flute, T. Berteling. Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday	264,727 264,772 264,827 264,834 264,680 264,611 264,800 10,202
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton. Flour bolt or dresser, L. B. Flechter Flute, T. Berteling. Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace.	264,727 264,772 264,827 264,834 264,680 264,611 264,800 10,202
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton. Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling. Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace.	264,727 264,772 264,827 264,834 264,680 264,611 264,800 10,202 264,823
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton	264,727 264,772 264,827 264,834 264,680 264,611 264,800 10,202 264,823
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton. Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling. Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing, O. Bolton Furniture, G. F. Richardson	264,727 264,772 264,827 264,834 264,680 264,611 264,800 10,202 264,823 264,510 264,758
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton. Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling. Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boiler furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing, O. Bolton Furniture, G. F. Richardson. Gas burning device, F. W. Gordon	264,727 264,772 264,827 264,834 264,680 264,611 264,800 10,202 264,823 264,510 264,758
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton Flour bolt or dresser, L. B. Flechter Flute, T. Berteling Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing, O. Bolton. Furniture, G. F. Richardson. Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee.	264,727 264,772 264,772 264,837 264,837 264,680 264,611 264,611 264,510 264,510 264,758 264,453 264,640
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boiler furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing, O. Bolton Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufac-	264,727 264,772 264,827 264,827 264,880 264,611 264,800 10,202 264,823 264,510 264,758 264,453
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boiler furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing, O. Bolton Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee. Gas, utilization of by-products in the manufacture of coal, Wallace & Claus.	264,727 264,772 264,772 264,834 264,834 264,860 264,611 264,800 10,202 264,823 264,812 264,823 264,823 264,640 264,553
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton. Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling. Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing, O. Bolton. Furniture, G. F. Richardson. Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee. Gas, utilization of by-products in the manufac- ture of coal, Wallace & Claus. Gate, J. M. Decker. Gate, J. E. Little.	264,727 264,772 264,877 264,834 264,880 264,611 264,800 10,202 264,823 264,510 264,758 264,453 264,640 264,801 264,801 264,801 264,801 264,801 264,801 264,801
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton. Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling. Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boiler furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton Furniture, G. F. Richardson. Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee. Gas, utilization of by-products in the manufacture of coal, Wallace & Claus. Gate, J. M. Decker. Gate, J. E. Little. Gearing, C. E. Albro.	264,727 264,772 264,877 264,834 264,880 264,611 264,800 10,202 264,823 264,510 264,758 264,453 264,640 264,801 264,801 264,801 264,801 264,801 264,801 264,801
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Flechter Flute, T. Berteling, Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing, O. Bolton Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee. Gas, utilization of by-products in the manufac- ture of coal, Wallace & Claus. Gate, J. M. Decker Gate, J. E. Little. Gearing, C. E. Albro Generator. See Steam generator.	264,727 264,772 264,877 264,834 264,880 264,611 264,800 10,202 264,823 264,510 264,758 264,453 264,640 264,801 264,801 264,801 264,801 264,801 264,801 264,801
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday Furnace. See Boiler furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufac- ture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. E. Little Gearing, C. E. Albro Generator. See Steam generator. Glass, guide for ruling or for aiding in cutting, W. Wheeler	264,727 264,727 264,827 264,834 264,680 264,610 10,202 264,823 264,510 264,758 264,640 264,640 264,615 264,615 264,428
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling Fodder cutter, E. Wagoner Foll wrapper, rolled, H. S. Crooke (r) Fur bats, making, W. E. Doubleday furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing, O. Bolton Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee. Gas, utilization of by-products in the manufac- ture of coal, Wallace & Claus. Gate, J. E. Little. Gearing, C. E. Albro. Generator. See Steam generator. Glass, guide for ruling or for aiding in cutting, W. Wheeler. Glue, etc., heater, S. Willershausen.	264,727 264,772 264,834 264,834 264,680 264,680 10,202 264,823 264,510 264,758 264,640 264,635 264,640 264,635 264,438
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton. Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling. Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton. Furniture, G. F. Richardson. Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee. Gas, utilization of by-products in the manufac- ture of coal, Wallace & Claus. Gate, J. M. Decker. Gate, J. E. Little. Gearing, C. E. Albro. Generator. See Steam generator. Glass, guide for ruling or for adding in cutting, W. Wheeler. Glue, etc., heater, S. Willershausen. Grain binder, J. F. Appleby.	264,727 264,772 264,877 264,834 264,680 264,611 264,800 10,202 264,523 264,610 264,758 264,453 264,640 264,428 264,428 264,499 264,499 264,602
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton. Flour bolt or dresser, L. B. Flechter Flute, T. Berteling, Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing, O. Bolton. Furniture, G. F. Richardson. Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee. Gas, utilization of by-products in the manufacture of coal, Wallace & Claus. Gate, J. M. Decker. Gate, J. E. Little. Gearing, C. E. Albro. Generator. See Steam generator. Glass, guide for ruling or for aiding in cutting, W. Wheeler. Glue, etc., heater, S. Willershausen. Grain binder, J. F. Appleby. Grain binder attachment, Kemp & Ross.	264,727 264,772 264,872 264,884 264,880 264,680 10,202 264,510 264,528 264,610 264,758 264,640 264,635 264,640 264,428 264,428
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton Flour bolt or dresser, L. B. Flechter Flute, T. Berteling Fodder cutter, E. Wagoner Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton. Furniture, G. F. Richardson. Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufac- ture of coal, Wallace & Claus Gate, J. E. Little Gearing, C. E. Albro Generator. See Steam generator. Glass, guide for ruling or for aiding in cutting, W. Wheeler Glue, etc., heater, S. Willershausen Grain binder, J. F. Appleby Grain binder attachment, Kemp & Ross Grain cleaning apparatus, D. Best Grain separator, J. B. Sultt	264,727 264,772 264,872 264,884 264,680 264,680 10,202 264,823 264,610 264,758 264,453 264,640 264,635 264,435 264,438 264,438 264,438 264,438 264,438
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton. Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling. Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton. Furniture, G. F. Richardson. Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee. Gas, utilization of by-products in the manufac- ture of coal, Wallace & Claus. Gate, J. M. Decker Gate, J. E. Little. Gearing, C. E. Albro. Generator. See Steam generator. Glue, etc., heater, S. Willershausen. Grain binder, J. F. Appleby. Grain binder attachment, Kemp & Ross. Grain cleaning apparatus, D. Best. Grain separator, J. B. Suitt. Grain separator, J. B. Suitt.	264,727 264,772 264,877 264,834 264,680 264,611 264,800 10,202 264,823 264,610 264,758 264,453 264,401 264,401 264,401 264,408 264,408 264,409 264,508 264,707 264,608 264,707 264,608 264,408
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling, Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing, O. Bolton. Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee. Gas, utilization of by-products in the manufacture of coal, Wallace & Claus. Gate, J. M. Decker. Gate, J. E. Little. Gearing, C. E. Albro Generator. See Steam generator. Glass, guide for ruling or for aiding in cutting, W. Wheeler Grain binder, J. F. Appleby Grain binder, J. F. Appleby. Grain binder attachment, Kemp & Ross Grain separator, J. B. Suitt Grain separator, J. B. Suitt Grain separator, J. J. Mitchell Grinding mill, J. E. Holmes.	264,727 264,772 264,872 264,884 264,680 264,680 10,202 264,823 264,610 264,758 264,453 264,640 264,635 264,428 264,428 264,428 264,428 264,428 264,428 264,428
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Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton. Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling. Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing, O. Bolton Furniture, G. F. Richardson. Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee. Gas, utilization of by-products in the manufac- ture of coal, Wallace & Claus. Gate, J. M. Decker. Gate, J. E. Little. Gearing, C. E. Albro. Generator. See Steam generator. Glue, etc., heater, S. Willershausen. Grain binder, J. F. Appleby. Grain binder attachment, Kemp & Ross. Grain cleaning apparatus, D. Best. Grain separator, J. B. Suitt. Grain separator, J. B. Suitt. Grain separator and cleaner, D. Best. Grain separator and cleaner, D. Best. Grain separator and cleaner, D. Best. Grainding mills, test plate for roller, W. D. Gray. Glycerine from the residuary waters resulting	264,727 264,772 264,877 264,834 264,680 264,611 264,800 10,202 264,523 264,510 264,535 264,400 264,403 264,428 264,499 264,499 264,503 264,600 264,503
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Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton. Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling. Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing. O. Bolton. Furniture, G. F. Richardson. Gas burning device, F. W. Gordon. Gas refining and steam power apparatus, B. W. Dunklee. Gas, utilization of by-products in the manufac- ture of coal, Wallace & Claus. Gate, J. M. Decker. Gate, J. E. Little. Gearing, C. E. Albro. Generator. See Steam generator. Glue, etc., heater, S. Willershausen. Grain binder, J. F. Appleby. Grain binder attachment, Kemp & Ross. Grain cleaning apparatus, D. Best. Grain separator, J. B. Suitt. Grain separator, J. B. Suitt. Grain separator and cleaner, D. Best. Grain separator, J. B. Suitt. Grain separator and cleaner, D. Best. Grain from the manufacture of soaps, extraction of E. L. M. Brocbon. Hame, J. G. Eberhard. Hammer and screwdriver, claw, J. A. 'Thayer. Hammer, power, A. Beaudry. Handle, See Plate and dish handle. Rubber	264,727 264,772 264,872 264,884 264,880 264,680 10,202 264,823 264,610 264,758 264,453 264,640 264,635 264,448 264,428 264,499 264,502 264,707 264,602 264,707 264,603 264,602 264,499 264,503 264,503 264,499 264,503 264,602 264,499 264,503 264,602 264,499 264,503 264,602 264,499 264,503 264,503 264,602 264,499 264,503 264,503 264,602 264,603 264,603 264,603 264,603 264,603 264,603 264,616 264,616 264,619 264,616 264,619 264,616
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Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton. Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling, Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boiler furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing, O. Bolton Furniture, G. F. Richardson Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee. Gas, utilization of by-products in the manufacture of coal, Wallace & Claus. Gate, J. M. Decker Gate, J. E. Little. Gearing, C. E. Albro. Generator. See Steam generator. Glass, guide for ruling or for aiding in cutting, W. Wheeler. Grain binder, J. F. Appleby. Grain binder attachment, Kemp & Ross. Grain cleaning apparatus, D. Best. Grain separator, J. B. Sultt. Grain separator, J. B. Sultt. Grain separator, J. J. Mitchell. Grinding mill, J. E. Holmes. Grinding mills, test plate for roller, W. D. Gray. Glycerine from the residuary waters resulting from the manufacture of soaps, extraction of E. L. M. Brocbon Hammer, power, A. Beaudry. Handle. See Plate and dish handle. Rubber covered handle. Rubber handle. Trunk handle. Wire reel handle. Harrow, D. Matteson Harrow and corn planter. combined. M. McNitt.	264,727 264,772 264,834 264,834 264,680 264,680 10,202 264,823 264,510 264,758 264,640 264,635 264,640 264,635 264,640 264,635 264,640 264,636 264,536
Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling, Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing, O. Bolton Furniture, G. F. Richardson. Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee Gas, utilization of by-products in the manufacture of coal, Wallace & Claus Gate, J. M. Decker Gate, J. E. Little. Gearing, C. E. Albro Generator. See Steam generator. Glass, guide for ruling or for aiding in cutting, W. Wheeler Grain binder, J. F. Appleby. Grain binder attachment, Kemp & Ross Grain separator, J. B. Suitt. Grain separator and cle aner, D. Best. Grinding mill, J. E. Holmes. Gr	264,727 264,772 264,872 264,884 264,880 264,680 264,611 264,803 264,510 264,523 264,510 264,758 264,453 264,640 264,635 264,640 264,635 264,718 264,428 264,428 264,499 264,503 264,50
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Firearm, breech-loading, W. Mason Firearm, breech-loading, Scott & Baker Firearm lock, breech-loading, W. B. Hall. Fire escape, J. C. Horton. Flour bolt or dresser, L. B. Fiechter Flute, T. Berteling, Fodder cutter, E. Wagoner. Foll wrapper, rolled, H. S. Crooke (r). Fur bats, making, W. E. Doubleday Furnace. See Boller furnace. Heating furnace. Privy furnace. Furnaces, signaling and registering attachment for reversing, O. Bolton. Furniture, G. F. Richardson. Gas burning device, F. W. Gordon Gas refining and steam power apparatus, B. W. Dunklee. Gas, utilization of by-products in the manufacture of coal, Wallace & Claus. Gate, J. M. Decker. Gate, J. E. Little. Gearing, C. E. Albro. Generator. See Steam generator. Glass, guide for ruling or for aiding in cutting, W. Wheeler Glue, etc., heater, S. Willershausen. Grain binder, J. F. Appleby. Grain binder attachment, Kemp & Ross. Grain separator, J. B. Suitt. Grain separator, J. B. Suitt. Grain separator, J. B. Suitt. Grain separator and cle aner, D. Best. Grain separator and cle aner, D. Best. Graining mill, J. E. Holmes. Grinding mills, test plate for roller, W. D. Gray. Glycerine from the residuary waters resulting from the manufacture of soaps, extraction of E. L. M. Brocbon. Hammer, power, A. Beaudry. Handle. See Plate and dish handle. Rubber covered handle. Rubber handle. Trunk han- dle. Wire reel handle. Harrow, D. Matteson. Larrow and corn planter. combined, M. McNitt. Harvester, corn, S. C. Kenaga. Harvester, corn, S. C. Kenaga. Harvester, S. Beaf dumper for self-binding, J.	264,727 264,772 264,872 264,884 264,880 264,880 264,680 10,202 264,823 264,510 264,528 264,510 264,758 264,453 264,640 264,635 264,640 264,635 264,718 264,428 264,428 264,428 264,616 264,513 264,428 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513 264,616 264,513 264,616
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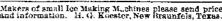
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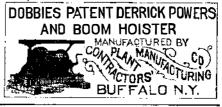
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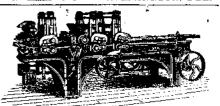


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