#### ENGINEERING INVENTIONS.

A car axle box has been patented by Mr. Stephen R. Stinard, of Pompton, N. J. The invention consists in fitting a tray having inclined or sloping side walls into the axle box below the axle journal, where by the setting oiled waste will be forced or crowded against the axle journal and the lubricant be retained in the tray.

A metallic packing has been patented by Messrs. William E. and Frederick G. Brockett, of Park City, Utah Ter. It consists of a gland-like pack ing ring with lubricant-holding groove combined with fractional packing rings having sloping backs and grooves or recesses, in connection with a special form of stuffing box, being specially adapted for piston rods, valve stems, expansion joints for pipes, etc.

A railway train timer has been patented by Mr. George W. Housel, of Bloomsbury, N. J. This invention covers a special construction of clock and auxiliary features designed to indicate to engineers or trainmen when the last train passed the indicator, as well as the time of day, so that the engineer may know by a glance at the instrument the exact time be tween his train and the one preceding him.

A splice bar for railroad rails has been patented by Mr. Jonas Potter, of Morrellville, Pa. It consists of a plate with a central chair and end chairs, the rail having its base cut away to the face of the web at each side to form opposite rabbets in the base at the end, and recesses beyond the rabbets, making an eco nomical and effective means of splicing the rails and securing them to the sleepers.

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AGRICULTURAL INVENTIONS.

A combined potato digging and harvesting machine has been patented by Mr. Arthur P. W. Wade, of Cedar City, Mo. This invention covers a novel construction, combination, and arrangement of parts in a machine by which the potatoes are plowed out of the ground, separated from the dirt and sticks, and transferred to a wagon or dropped in a row alongside the machine.

A double cutter bar has been patented by Mr. William T. Wardall, of near Manly Junction, Iowa. Combined with two cutter bars and their cutters a spacing strip is arranged between the sections of the finger bar and formed with slots through which the connecting bolts pass, making a double cutter bar which will not clog, and with the parts so constructed that the cutters may be adjusted to operate in the most effective position.

#### ... MISCELLANEOUS INVENTIONS.

A curry comb has been patented by Mr. William R. Adams, of Omaha, Neb. The body portion has one toothed face and one plain face, the handle device being hold adjustably to the beallow either face to be used, the handle device consistion of a leather plate and a hamile strap

A saw gauge has been patented by Mr. Edward S. Nixon, of near Chattanooga, Tenn. It is a novel device which can be readily applied  $t_{\Omega_i}$  a block or board to be sawed, and held firmly in place thereon, to accurately guide the saw in the direction in which the block or board is to be cut.

A. churn has been patented by Mr. William W. Perkins, of Palouse, Washington Ter. A cup-shaped dasher is journaled to rotate in a create vessel, the dasher having a closed top, a bottom opening and side port, with a radial wing or piston operating when the dasher is rotated to force the cream through the port, and thus cause the butter to come quickly.

A combined mail bag fastener and tag holder has been patented by Mr. Henry N. Ockford, of Jackson, Mich. The body portion has a cross pin and a clamp for holding the mail bag ropes, and a tag holder with an eye to receive the pin of the fastener, with other novel features, for conveniently locking the bag and carrying its indicator tag.

A boot or shoe stretcher has been patented by Mr. Lloyd Nottingham, of Norfolk, Va. It is adapted for stretching a boot or shoe in length as well as width and in the instep portion, the invention covering a novel construction and adaptation of parts, whereby also the stretcher may be used in stretching two boots or shoes at the same time with one screw.

The manufacture of white lead forms the subject of a patent issued to Mr. William P. Talbot, of Brooklyn, N. Y. The invention covers an improved article of manufacture, being a circular lead buckle 26. cast on one face with blade-like ridges on opposite sides of the diameter of the buckle, whereby the ribs will be quickly corroded with the body of the buckle.

A sleigh shoe has been patented by Mr. George A. Stevens, of Hartsville, Mass. It is of hat class having a dovetailed groove in its inner face for receiving the bolt for securing the shoe to the runner, the invention covering the formation of the groove and the combination therewith of a bushing of suitable relative shape.

and more manageable grip, while making a strong wrench and one which can easily be repaired or parts replaced when worn.

A felly bolt has been patented by Mr. Duncan W. McKinnon, of North Sydney, Cape Breton, Nova Scotia, Canada. The bolt and nut are formed with re-enforcing sections, the head of the bolt being nicked after the manner of an ordinary wood screw, making an improved bolt for preventing the splitting of the fellies without detracting from their appearance

A floor jack has been patented by Mr. John L. Fredericks, of La Grangeville, N.Y. Combined with a brace bar having a spur and head adapted to be struck by a mallet 1s a pivoted lever and a push bar pivoted to the lever with a series of notches on its under edge, a block pivotally attached to its free end, with a link connecting the push and brace bars.

A conduit for electric conductors has been patented by Mr. Edward E. Greene, of New York City. Its sections are designed to replace and serve as the ordinary curb, and are cast or moulded in iron, artificial stone, or other suitable material, ducts for the conducting cables extending longitudinally through the sections, making a conduit which can be cheaply and easily laid, and affording ready access to the conductors.

A mop wringer and scrubbing brush holder has been patented by Messrs. Zotique R. La Fleche and Joseph A. Ledoux, of Concordia, Kansas. It is so made that the mop may be wrung by winding it upon a roller by means of a small crank, while the cations and experience, "Machinery," P.O. box 773, New brush, pivoted in short arms, may be clamped in any desired position, the device being simple, convenient, and effective.

# SCIENTIFIC AMERICAN BUILDING EDITION.

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- etc.
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# Business and Personal.

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

Machinist with experience on cylinder printing press Address, stating age, experience, and salary rees. quired, Golding & Co., Boston.

Wanted-Metal pattern makers, first class men only. Must be familiar with working in brass. Address, stating experience, the United Brass Co., Lorain, Ohio.

For Sale-Second hand foundry cranes. Two large size cranes, capacity of about 6,000 lb. 30 feet gaff. In good order. Ready for delivery early in January. Apply to Otis Brothers & Co., 38 Park Row, New York.

Tanning Leather by Electricity .- A good, practical process wanted by Wm. F. Schmoele & Co., 15 Belliard Street, Antwerp, Belgium.

Portable grinding mills. Chas. Kaestner & Co., Chicago, Ill.

Saws-How to straighten and gum all kinds. See p. 381.

A tried business man, one familiar with the sale of machinery, is wanted to take entire charge of a large and growing business in a thriving city on the Pacific coast. An applicant possessed of capital would be offered an interest in the house. The position will be given to a suitable person without capital if such a one applies Address, with references and full statement of qualifi-York

Nickel Plating .- Manufacturers of pure nickel and odes, pure nickel salts, polishing compositions, etc. \$100 "LAttle Wonder." A perfect Electro Plating Machine. Agents of the new Dip Lacquer Kristaline. Complete outfit for plating, etc. Hanson, Van Winkle & Co., New ark, N. J., and 92 and 94 Liberty St., New York

Burnham's New Improved Turbine. Sold at cost of nanufacturing and advertising. Address York, Pa.

Lacquers .- Zapon, Brilliantine, Brassoline, Opaline, and other lacquers and special varnishes. Brilliant, hard, durable. Send for catalogue. The Fred'k Crane Chemical Co., Short Hills, N. J. N. Y. agent, Horace Van Sands, 735 Broadway.

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

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

The Railroad Gazette, handsomely illustrated, published weekly, at 73 Broadway, New York. Specimen coples free. Send for catalogue of railroad books.

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

Feed grinders. Chas. Kaestner & Co., Chicago, Ill. Link Belting and Wheels. Link Belt M. Co., Chicago Presses & Dies. Ferracute Mach. Co , Bridgeton, N. J Iron Planer, Lathe, Drill, and other machine tools of

modern design. New Haven Mfg. Co., New Haven, Conn. Supplement Catalogue .- Persons in pursuit of infor-

mation of any special engineering, mechanical, or scien-tific subject, can have catalogue of contents of the Sci-INTIFIC AMERICAN SUPPLEMENT sent to them free The BUPPLEMENT contains lengthy articles embracing the whole range of engineering, mechanics, and physical science. Address Munn & Co., Publishers, New York.

The Holly Manufacturmg Co., of Lockport, N.Y. will send their pamphlet, describing water works ma-chinery, and containing reports of tests, on application. Lathes for cutting irregular forms a specialty.

ad. p. 349. Hartford drill chucks. 3 sizes. Hold to 1/4 in., 1/2 in

and X in. Cushman Chuck Co., Hartford, Conn. Steam Hammers, Improved Hydraulic Jacks, and Tube

Expanders. R. Dudgeon, 24 Columbia St., New York.

60,000 Emerson's 1887 EF Book of superior saws, with Supplement, sent free to all Sawyers and Lumbermen. Address Emerson, Smith & Co., Limited, Beaver Falls, Pa., U. S. A.

Hoisting Engines, Friction Clutch Pulleys, Cut-off Couplings. D. Frisbie & Co., 112 Liberty St., New York. "How to Keep Boilers Clean." Send your address

for free 85 page book. Jas. C. Hotchkiss, 120 Liberty St. N. Y. Paint mills. Chas. Kaestner & Co., Chicago, Ill.

Magic Lanterns and Stereopticons of all kinds and prices. Views illustrating every subject for public ex hibitions, Sunday schools, colleges, and home entertain ment. 152 page illustrated catalogue free. McAllister Manufacturing Optician, 49 Nassau St., New York. Practical Working Drawings of machinery made

by A. K. Mansfeld & Co., 280 Broadway, N. Y. Life-long mechanics. One formerly R. R. supt. M. P. Important references. Work guaranteed. Correspondence

same time. Rollstone Machine Co., Fitchburg, Mass.

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## AND EACH BEARING THAT DATE.

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Button fastening machine, A. H. Gleason Button, hinged shoe, R. H. Lewis Button making machine, J. C. Schott Button, self-attaching, H. Gray Cables, etc., clip or hanger clasp for supporting, T. T. Eckert Cabs <sup>7</sup> and 'other vehicles, door operating device for, <u>H. Sproul</u> Can holding device, G. W. Hill Carburetor, C. B. Dudley Car coupling, E. A. De May Car coupling, W. L. Gordon Car coupling, D. J. Harding Car coupling, F. M. Hewett Car coupling, F. M. Hewett Car coupling, F. M. Hewett Car coupling, E. F. Taylor Car seats, apparatus for cleaning, D. W. Cope- land Cars, platform step for railway, J. J. Stever Cars, platform step for railway, J. J. Stever Carpet, ingrain, A. Head Carpeting, etc., producing improved color effects in the manufacture of tapestry, G. Mar-	375,149 375,297 376,004 375,005 374,948 375,053 375,158 375,058 375,158 375,058 375,155 375,152 375,155 375,152 375,155 375,152 375,152 375,152 375,152 375,255 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,252 375,25
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,149 375,297 375,065 374,948 375,065 375,065 375,055 375,158 375,158 375,158 375,158 375,157 375,157 375,157 375,157 375,157 375,225 375,225 375,225 375,228 374,940 375,049 375,218 375,019
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,129 375,297 376,004 375,005 374,948 375,013 375,015 375,055 375,055 375,158 375,055 375,157 375,157 375,157 375,157 375,157 375,157 375,128 375,033 375,033 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,039 375,03
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,149 375,277 376,004 375,005 374,948 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,20
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,149 375,297 376,004 375,005 374,948 375,218 375,168 375,168 375,168 375,168 375,168 375,168 375,167 375,167 375,228 375,232 375,187 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,238 375,25
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,149 375,297 376,004 375,005 374,948 375,013 375,013 375,013 375,015 375,015 375,015 375,015 375,015 375,218 375,232 374,940 374,940 375,013 375,013 375,013 375,013 375,013 375,013 375,013 375,013 375,013 375,013 375,013 375,013 375,013 375,013 375,013 375,013 375,013 375,013 375,013 375,013 375,013 375,013 375,013 375,013 375,013 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,015 375,01
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,149 375,277 376,004 375,005 374,948 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,272 375,105 375,272 375,105 375,289 375,210 375,289 375,210 375,289 375,210 374,940 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,21
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,149 375,297 376,004 375,005 376,004 375,005 375,005 375,105 375,105 375,105 375,105 375,105 375,105 375,105 375,105 375,205 375,205 375,201 9 10,500 374,988 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,211 375,2
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,129 375,297 376,004 375,005 374,948 375,013 375,158 375,158 375,158 375,152 375,152 375,152 375,152 375,152 375,272 375,272 375,273 374,969 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,05
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,129 375,297 376,004 375,005 374,948 375,013 375,158 375,158 375,158 375,152 375,152 375,152 375,152 375,152 375,272 375,272 375,273 374,969 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,033 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,035 375,05
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,149 375,297 376,004 375,005 376,004 375,005 375,005 375,105 375,105 375,105 375,105 375,105 375,105 375,105 375,205 375,205 375,219 375,219 375,211 375,211 375,215
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,129 375,297 376,004 375,005 376,004 375,013 375,013 375,158 375,158 375,152 375,152 375,152 375,152 375,152 375,252 375,252 375,252 375,252 375,252 375,252 375,003 374,969 375,003 375,003 375,003 375,218 375,219 375,003 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,21
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,129 375,297 375,297 375,005 374,948 375,213 375,015 375,055 375,155 375,155 375,155 375,155 375,157 375,157 375,157 375,157 375,259 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,283 375,28
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,149 375,297 376,004 375,005 374,948 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,20
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,149 375,297 376,004 375,005 374,948 375,013 375,158 375,158 375,152 375,152 375,152 375,152 375,152 375,152 375,152 375,152 375,152 375,278 375,278 375,218 375,218 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,219 375,21
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,129 375,297 376,004 375,005 374,948 375,013 375,015 375,055 375,055 375,055 375,055 375,055 375,252 375,156 375,255 375,272 375,157 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,27
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,149 375,297 376,004 375,005 374,948 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,20
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,129 375,297 376,004 375,005 374,948 375,015 375,015 375,152 375,152 375,152 375,152 375,152 375,152 375,152 375,152 375,152 375,275 375,275 375,218 375,218 375,218 375,218 375,218 375,219 375,219 375,219 375,219 375,219 375,219 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,21
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,129 375,297 376,004 375,005 374,948 375,015 375,015 375,152 375,152 375,152 375,152 375,152 375,152 375,152 375,152 375,152 375,275 375,275 375,218 375,218 375,218 375,218 375,218 375,219 375,219 375,219 375,219 375,219 375,219 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,21
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,129 375,297 376,004 375,005 374,948 375,015 375,015 375,152 375,152 375,152 375,152 375,152 375,152 375,152 375,152 375,152 375,275 375,275 375,218 375,218 375,218 375,218 375,218 375,219 375,219 375,219 375,219 375,219 375,219 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,21
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,129 375,297 376,004 375,005 374,948 375,015 375,015 375,152 375,152 375,152 375,152 375,152 375,152 375,152 375,152 375,152 375,275 375,275 375,218 375,218 375,218 375,218 375,218 375,219 375,219 375,219 375,219 375,219 375,219 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,21
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,149 375,297 376,004 375,005 376,004 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,205 375,20
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,129 375,297 376,004 375,005 374,948 375,013 375,013 375,015 375,052 375,152 375,152 375,152 375,152 375,152 375,252 375,152 375,272 374,949 375,273 375,013 375,013 375,210 375,211 375,211 375,210 375,215 375,221 375,221 375,221
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,149 375,277 376,004 375,275 376,004 375,005 377,008 375,008 375,008 375,008 375,008 375,008 375,008 375,009 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,275 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,210 375,21
<ul> <li>Button fastening machine, A. H. Gleason</li></ul>	375,149 375,297 376,004 375,005 374,948 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,005 375,205 375,205 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,207 375,20

A spirit level has been patented by Mr. Enos F. St. John, of Highland Station, Mich. It consists of a circular tube partially filled with spirit or other proper liquid, mounted in connection with a semicircular graduated plate, whereby the instrument may be used for obtaining level or perpendicular lines or intermediate angles.

by Mr. John G. Shahfer, of Clay City, Ind. It consists of a case with extension cupboard having centrally hung or pivoted safes, each with semicircular sides and back, the safes being adapted to discharge their contents without the use of a scoop or other means usually employed for that purpose.

Mr. William H. Brock, of Brooklyn, N. Y. It is a pipe wrench of novel make, designed to give greater ease in spplying the wrench to the pipe, the getting of a firmer

View of a Country Residence; also sketch for a Tower, by John Calvin Stevens, architect.
Miscellaneous Contents: Keep Out the Water. —Improvement in Frescoing.—American Ar-chitecture of Fifty Years ago.—Lapagerias.— Decision on a Building Contract.—The Creo-soting of Wood.—Life of Iron Pipes.—Sani-tary Arrangements in a Country House.— Pinus Parvifiora.—The Architectural League. —Spots upon Plaster Ceilings.—Straight and Curved Lines in Architecture.—The Murphy System of House Drainage.—Painting. Iron Work.—Utility and Beauty in Architecture. Railroad Snow Sheds.—Frost Glass.—Diminu-tion and Entasis of Colomns.—How Mirrors are Made.—Clay Roofing Tile.—A Sewer Stopped by Tree House.—New Plan for a Stor-age Warchouse —The Building and Decora-tive Stones of Egypt.—Gas Fire Radiator.— Architects, Clients, and Builders.—The Mor-timer Apartment House.—Sewer Poison.— Metallic Roofing, with illustrations.—Boiling Bricks in Tar.—" Unique" Screw Holding Screw Driver, illustrated. The Wooden Rail-ways of the United States.—Prevention of Fire in Theaters.

r intermediate angles. A kitchen cabinet has been patented y Mr. John G. Shahfer, of Clay City, Ind. It consists f a case with extension cupboard having centrally ung or pivoted safes, each with semicircular sides and ack, the safes being adapted to discharge their con-ents without the use of a scoop or other means usually mployed for that purpose. A chain wrench has been patented by f. William H. Brock, of Brooklyn, N. Y. It is a pipe f. William H. Brock, of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. It is a pipe f. William H. Brock of Brooklyn, N. Y. H. H. Sock of Brooklyn, N. Y. H. H. Sock of Brooklyn, N. Y. H. Brock of

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ar pad attachment, horse, E. E. Withey	375,111
b. See Curry comb.	
pound engine, A. D. Linn	375,077
l clamp, F. Egge	375,143
l fastener, A. S. Mann	374,982
et trimming, J. Stone.	875,106
folding, E. F. Tilley	375,903
on gin, B. Andrews	875,115
on openers, evening mechanism for, J. C.	
Potter	
on picker stem, C. T. Mason, Jr	875,084
pling. See Bell rope coupling. Car coupling.	
Pipe coupling. Thill coupling.	
s, pneumatic apparatus for cleaning strainers	
of submerged, J. G. Falcon	
shing mill, A. E. Roe	
holder, S. H. Brooks	374,931
ivator, W. M. Coston	374,941
See Oil cup. Sponge cup.	
y comb, W. R. Adams	375,114
off and filter combined, rain water, N. W.	
Davis	
off valve, J. A. Horton	
offvalve, O. Noll	875,090
er. See Bolt cutter. Cigar cutter. Tube cut-	
er bar, double, W. T. Wardall	376,287