or bar projects from the support and is connected with the plunger. A spring exerts pressure on the arm or bar. The plunger properly actuates its part of the diaphragm to draw off the fibers through the openings in a screen into a suction-box, the material flowing by its gravity into a receiving-box and over a gate. The provision of a single outlet fer two or more suction chambers having a number of screen-plates brings the pulp into a separate compartment in the receiving-box, so that the operator has full control of the pulp, regardless of the number of suctionchambers in the machine.

ADJUSTABLE GUN-STOCK. - JOSEPH N. ZOLLER, St. Matthews, Ky. This attachment for gun-stocks enables one gun to be used for various purposes. An adjusting head is pivoted in the stock and attached to the grip. The head is provided with peripheral teeth. between the spaces of which a bolt held to slide in the stock can be projected.

WASH-TUB ATTACHMENT. - OTTO SCHWEITZER, Paterson, N. J. The inventor has provided a wash-tub with a movable partienabling the wash-tub to be used as a bathtub. On the upper edge of the partition, levers are mounted. A plate is pivoted on one lever and has sliding connections with the other lever. A screw is carried on the parti-tions and works with the inner ends of the

STOOL .- JOHN M. BURDUM, Batavia, Ill. This stool is to be used in boot and shoe stores and comprises a seat for the salesman and a rest for the foot of the person on whom a shoe is to be fitted.

CRUCIBLE .- PORTER W. SHIMER, Easton, Pa. The crucible is to be used for fusing or highly heating metal or other material in an atmosphere of any gas. The crucible is provided with a hollow stopper seated on a rubber gasket and having means for cooling the stop per and crucible and circulating air.

WEATHER-STRIP. - WILLIAM L. SMITH HOMER E. ASHCRAFT and WILLIAM O. JAMIson, Seymour, Iowa. This weather-strip can be attached to any door. When the door is closed a member of the weather-strip is firmly in engagement with a threshold-strip. As the door is opened, a protective member of the weatherstrip is automatically carried up to engagement with the body of the weather-strip; as the door is closed the protective member of the weather-strip is automatically brought into engagement with the threshold-strip and lodged in protective position.

GAME.-JOHN G. FLOYD, Mastic, N. Y. The apparatus employed in this game com-prises a course, defined at its ends by goals. In this course a ball is to be placed. Players arranged in opposing teams are to have for their object to protect their respective goals and to prevent their opponents' forcing a ball past the goal. The apparatus can be quickly set up in a room or on a lawn.

SPACE-BAR FOR LINOTYPE MACHINES. -DAVID A. HENSLEY, Vicksburg, Miss. The improved space-bar consists essentially of two parts or wedges, the upper one of which may be termed a stationary member inasmuch as it is held against upward movement in the ordinary manner, while the lower part may be termed the movable member, as it is driven by the usual or any improved mechanism for the purpose of expanding the space-bar. The operation of the improved space-bar is the same as that of ordinary space-bars. Superior results are obtained, however, owing particularly to the fact that a shield is employed of substantially the same outline as the movable member, which shield is of uniform thickness instead of being wedge-shaped as in other con-It is impossible for either the structions. movable wedge or the shield to spring away from the stationary wedge or to move transversely or edgewise.

CALENDAR. - ARTHUR A. SPARKS, San Francisco, Cal. The calendar relates to that class in which a device is provided for indi-cating at a glance the day of the week and the Each one of the date-spaces has a month. holder or fastening device. An indicator can be secured to any of the fastening devices. To prevent accidental loss of the indicator, an elastic string or cord is employed.

STOVE.-SAMUEL W. JACKSON, Selma, Cal. From the top plate of the stove a combustionchamber, and an inner or suplementary com-

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READ THIS COLUMN CAREFULLY,-You will find inquiries for certain classes of articles numbered in consecutive order. If you manufacture these goods write us at once and we will send your name and address to the party desiring the information. In every case it is neces sary to give the number of the inquiry. MUNN & CO.

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Felix Daus Duplicator Co., 5 Hanover St., N. Y. city. Inquiry No. 246.-For small drills for sinking oil wells or prospecting for coal.

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Inventions developed and perfected. Designing and machine work. Garvin Machine Co., 141 Varick St., N. Y. Inquiry No. 249.-For machinery for welding ends of old flues.

Inquiry No. 250.-For improved brush machinery.

MANUFACTUR ERS WANTED who can make in quan-Address L. Foucault, Natchez, Mississippi. Inquiry No. 251.-For manufacturers of keys for

type The celebrated "Hornsby-Akroyd" Patent Safety Oil Engine is built by the De La Vergne Refrigerating Ma

chine Company. Foot of East 138th Street, New York. Inquiry No. 252.-For ice manufacturing machin-The best book for electricians and beginners in elec-

tricity is "Experimental Science," by Geo. M. Hopkins. By mail. \$4. Munn & Co., publishers, 361 Broadway, N. Y. Inquiry No. 253.-For rubber stamp manufac-turers.

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Inquiry No. 274.—Formanufacturers of small, ro-tary engines of moderate horse power.

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Inquiry No. 278.— For manufacturers of small pring motors for running fans.

Inquiry No. 279.—For manufacturers of com-

Inquiry No. 280.-For manufacturer of boiler wa-ter-tubes with a circulating pice inside of copper and brass for model boilers and steel for larger ones. Inquiry No. 281.-For manufacturers of tin can tachinery for canning purposes.

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Inquiry No. 287.-For manufacturers of cooper-ge machinery for making barrels, half barrels and

Inquiry No. 288.—For manufacturers of the Amer-can "Keystone" typewriter.

Inquiry No. 259.—For manufacturers of acetylene as burners for cooking, etc. Inquiry No. 290.—For manufacturers of machin-ery and tools for handling, storing and manufacturing

Inquiry No. 291. - For manufacturers of light per-forating machines, capable of perforating thin sheet copper and aluminium with about 100 holes to the square inch.

Inquiry No. 292.—For manufacturers of barrels, half barrels and kegs in car lots.

Inquiry No. 293.-For manufacturers of machin-ery for making toothpicks.

Inquiry No. 294.-For manufacturers or dealers

in small locomotives. Inquiry No. 295.—For manufacturers of felt cloth used for absorbing oil in machinery, ink in stamp pads. etc.

Inquiry No. 296.—For manufacturers of a gas water-heating apparatus to be used in a gymnasium bathroom.

Inquiry No. 297.-For parties to make a 3-piece metal novelty.

Inquiry No. 298.—Formanufacturers of creamery supplies, condensing and sterilizing apparatus.



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Names and Address must accompany all letters or no attention will be paid thereto. This is for our information and not for publication. References to former articles or answers should give date of paper and page or number of question. Inquiries not answered in reasonable time should be repeated; correspondents will bear in mind that some answers require not a little research, and, though we endeavor to reply to all either by letter or in this department, each must take his turn.

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(8143) J. W. B. writes: 1. I desire to make a helix to magnetize a %-inch bar of octagon steel. How long and how many turns of wire, and of what size wire shall I make it? I get current from a dynamo. A. The statement that the current is from a dynamo gives no clew to its voltage, which must be known before a coil can be constructed to magnetize a magnet. However, proceed as follows: Wind a coil of No. 12 cotton-covered wire of a size that the bar will slip easily through the coil. Any insulated wire will do as well, if magnet wire is not at hand. Make perhaps 100 turns, number not important. Connect this in series with a lamp. Turn on the current, and pass the bar back and forth

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the manufacturer and artisan, down to the housewife and the cook in the kitchen. by far the most compendious work of the sort ever attempted, comprising upward of 15,000 recipes and formulæ, and usually embrac-ing minute directions for carrying out the processes. The titles are arranged alphabetically, thus facilitating consultation. The book is well and clearly printed on good paper and is strongly and substantially bound .-National Druggist.

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