## RECENTLY PATENTED INVENTIONS. Agricultural Implements.

HAY-STACKER DRUM .- P. E. SNEER, Ellensburg, Wash. This drum, which is designed for use on hay-stackers, increases the motion of the fork without adding to the speed of the horse or other power, and also furnishes the greatest amount of power when most needed, and the greatest speed when most needed.

MOTOR-OPERATED AGRICULTURAL MA-CHINE .- D. LUBIN, New York, N. Y. The patent covers a machine with a motor-operated mechanism, whereby digging devices are forced into the ground and then the machine moved forward one step as the diggers are lifted with the earth and breaking devices rapidly operated to finely pulverize the lifted earth.

AGRICULTURAL MACHINE.-D. LUBIN, New York, N. Y. Two patents have been granted to Mr. Lubin for inventions under this heading. The first machine is of the class operated by a steam or other motor, and it comprises a rotary digging-tool with means operated by the motor for moving the vehicle forward at predetermined distances to rotate the tool and at the same time cause it to grad-

ually enter the ground to the desired depth.

The second machine is of the class in which a motor mounted on a wheeled vehicle alternately operates a ground digging or breaking tool and moves the vehicle a short distance for the next operation of the tool, the object being to pro vide a machine so made as to automatically change the gear connections to cause the differ ent movements or operations.

POWER-OPERATED AGRICULTURAL IM-PLEMENT .- D. LUBIN, New York, N. Y. The object of this invention is to have the imple ment operated by steam or other motive agent in such manner as to alternately move the de vice and operate the ground-digging tool or tools by means of which the ground will be uniformly operated upon, finely pulverized, and prepared for planting or seeding.

## Miscellaneous Inventions.

BEDSTEAD POST AND RAIL JOINT-COUPLING .- A. W. BUSBY, Milwaukee, Wis. A novel, simple and strong dovetail connection has been invented by Mr. Busby, which is especially adapted for joining the rails and bed posts of wooden or metal bedsteads. The device may be easily disconnected when desired. The angle-iron side rails may with this connection be so secured to the bed post as to dispose either the outer or inner sur faces of the rail uppermost.

SH●E-TREE.-M. HAYES, New York, N. Y. Means for expanding and re-shaping boots and shoes to prevent them from being crushed or wrinkled while not in use, is provided in this invention. The construction of the tree is simple and so arranged that it may be easily manipulated and inserted in the shoe.

BADGE .- G. H. Brooks, Louisville, Ky. The badge has a fastening formed of a spring wire having one end constructed as a hook and the other as the pin proper, the fastening being inserted through holes in the backing. The hook is provided with a shank which holds it rigidly in place, projecting on the face of the backing.

DISPLAY-RACK .- G. A. WEEKS, Sheldon, Improvements in devices for exhibiting lace curtains, portieres, wall paper, dress goods and other articles, are provided in this invention. Provision is made for bringing any desired article into view and also a suitable cover is provided whereby dust will be ex-cluded from the articles to be exhibited.

DISINFECTANT-DISTRIBUTING DEVICE. -S. Hesketh, Auckland, N. Z. A device for distributing disinfectant material is provided in this invention. The device may be either portable or stationary and is arranged to constantly feed the disinfectant material at desired strength and in desired quantity, to a pivoted self-emptying receptacle, which, when discharging material from one compartment will present another compartment to be filled from the source of supply.

GATE .- F. JACKSON, Wayne Township, Wayne County, Ind. The gate is more espe cially designed for use on farms, driveways and other places. The construction permits convenient opening or closing of the gate by a person on foot, in a wagon or on horseback. For the passage of small animals such as sheep and swine the gate is raised bodily without being opened.

ANNULAR TANK FOR LIQUIDS .-INTZE, Aix-la-Chapelle, Germany. The prin cipal difficulty attending the construction of large tanks of cylindrical form consists in the connection of the bed or bottom of the tank with the lower parts of the cylindrical walls and in the construction of a supporting struc ture, capable of transmitting a heavy load in an advantageous manner onto the sup-ports. The present invention provides new means for overcoming these difficulties.

BRICK .- J. B. DUNLAP, Tonkawa, Okla. Ty Mr. Dunlap is the inventor of a novel composition of brick or building blocks, to be used for all purposes, either above or below ground for which bricks are ordinarily employed The brick is composed of sand and certain chemical binder ingredients, combined in a

LUBRICANT FOR WOOL AND PROCESS OF MAKING SAME .- G. B. HOLDEN, Lowell, Mass. The underlying idea of the invention is

to cause wool to run smoothly through the machinery used in operating the same during the process of manufacture, and also to softer the wool and render it pliable. Mr. Holden has invented an improved lubricant which will accomplish this result.

Note.-Copies of any of these patents will be furnished by Munn & Co. for ten cents each Please state the name of the patentee, title of the invention, and date of this paper.

## Business and Personal Wants.

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 you the name and address of the party desiring the information. In every case it is necessary to give the number of the inquiry. MUNN & CO.

Marine Iron Works. Chicago. Catalogue free. Inquiry No. 3889.—For dealers in the different parts of suspenders.

AUTOS .- Duryea Power Co., Reading, Pa.

Inquiry No. 3890.—For a second-band Becker vertical milling machine. "U.S." Metal Polish. Indianapolis. Samples free.

Inquiry No. 3891.—For parties to manufacture a nitable trophy for a public gift representing Indian

Coin-operated machines. Willard, 284 Clarkson St.

Inquiry No. 3892.—For makers of steam turbine engines of 50 horse power.

Blowers and exhausters. Exeter Machine Works Exeter, N. H.

Inquiry No. 3893 .- For makers of metalophones Dies. stampings and armature discs. Advance Manufacturing Co., Racine, Wis.

Inquiry No. 3894.—For machines for folding and stitching at the same time.

Sawnill machinery and outfits manufactured by the Lane Mfg. Co., Box 13, Montpelier, Vt.

Inquiry No. 3895.—For trolley tracks for over-head hoisting for use m warehouses for piling up heavy

Metal Stamping Co. Niagara Falls N. Y., cuts and forms sheet, bar, rod, or wire any shape.

Inquiry No. 3896.—For a practical ice plant of capacity 50 to 100 lbs. a day, of a small cooling plant for reducing the temperature to 40 or 50 degrees.

FOR SALE -60 h. p. Otto gas engine, the latest type

ractically new. Colborne Mfg. Co., Chicago

Inquiry No. 3897.—For a speed and time recorder to be attached to an automobile or other vehicle.

Let me sell your patent. I have buyers waiting. Charles A. Scott, Granite Building, Rochester, N. Y.

Inquiry No. 3898.—For a machine for grinding or pulverizing hard substances. SAW MILLS.-With variable friction feed. Send for

Catalogue B. Geo. S. Comstock, Mechanicsburg, Pa. Inquiry No. 3899.-For makers of portable boring

Gear Cutting of every description accurately done The Garvin Machine Co., 149 Varick, cor. Spring Sts., N. Y. Inquiry No. 3900.—For manufacturers of accordion pleating machines.

Manufacturers of patent articles, dies, stamping tools, light machinery. Quadrica Manufacturing Com-pany, 18 South Canal Street, Chicago.

Inquiry No. 3901.—For the manufacturers of the coats sheep shearing machine.

Crude oil burners for heating and cooking. Simple, efficient and cheap. Fully guaranteed. C. F. Jenkins Co., 1103 Harvard Street, Washington, D. C.

Inquiry No. 3902.—For importers and makers of sewing needles.

The largest manufacturer in the world of merry-go rounds, shooting galleries and hand organs. Fo and terms write to C. W. Parker. Abilene, Kan.

Inquiry No. 3903.—For a machine for testing ubricating grease.

We manufacture anything in metal. Patented arti cles, metal stamping, dies, screw mach. work, etc. Metal Novelty Works, 43 Canal Street, Chicago.

Inquiry No. 3904.—For a pulley-turning tathe which will finish a pulley complete. The celebrated "Hornsby-Akroyd" Patent Safety oil

Engine is built by the De La Vergne Refrigerating Machine Company. Foot of East 138th Street, New York. Inquiry No. 3905.-For manufacturers of steam

WORKS Manager Wanted for Europe.-For the manu facture of small scientific machines. Must be a thoroughly competent practical engineer, well versed in work ng the most modern types of automatic machinery for making screws, studs, washers and other small machine parts. To athoroughly competent man a good position is offered. Address W. W. W., P. O. Box 165, New York City.

Inquiry No. 3906.—For machines for picking cotton from the stalk in the field.

INVESTMENT OF CAPITAL -Stock for sale in a going electrical manufacturing company within one hundred miles of Chicago. Fine business and good plant well located. Investigation courted. For particulars write to M. Harwood, 2d Floor, Electric Building, 118 W. Jackson Boulevard, Chicago,

Inquiry No. 3907.—For makers of electric floor planers.

Wanted-Revolutionary Documents, Autograph Letters, Journals, Prints. Washington Portraits, Early American Illustrated Magazines, Early Patents signed by Presidents of the United States. Valentine Manuals of the early 40's. Correspondence solicited. Address C. A. M., Box 775, New York.

Inquiry No. 3908.—Wanted to correspond with parties prepared to supply a machine for cutting washers or gaskets directly from a hose as the hose is fed into the cutting machine.

Inquiry No. 3909.—For makers of the one man

Inquiry No. 3910. -For makers of electric lighting machinery.

Inquiry No. 3911.—For the best motor freight arriers run by electricity, Inquiry No. 3912.—For makers of the very light-st engine possible, of 2 or 3 horse power, such as for erial machines.

Inquiry No. 3913. - For a wire-tapering machine. Inquiry No. 3914.—For machinery for making flour from banguas.

Inquiry No. 3915.—For dealers in presses and dies for making mosaic tites and artificial stone.

Inquiry No. 3916.—For manufacturers of decorticators.



HINTS TO CORRESPONDENTS.

Names and Address must accompany all letters or no attention will be paid thereto. This is for our information and not for publication.

References to former articles or answers should give date of paper and page or number of question.

Inquiries not answered in reasonable time should be repeated; correspondents will bear in mind that some answers require not a little research, and, though we endeavor to reply to all either by letter or in this department, each must take his turn.

bis turn.

Buyers wishing to purchase any article not advertised in our columns will be furnished with addresses of houses manufacturing or carrying

the same.

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

Books referred to promptly supplied on receipt of price.

minerals sent for examination should be distinctly marked or labeled.

(8869) W. J. C wishes to know how to remove indelible ink marking from clothing. A Indelible inks are of such variable characte that it is quite impossible to reply. Many o these inks have nitrate of silver as a basis in this case, a solution of hyposulphite of sod might help. Some other inks might possibly b bleached out with javelle water and wea muriatic acid; this can be used only in whit zoods, as most dves would be destroyed. Pos sibly also a solution of sulphurous acid migh

(8870) R. D. H. asks for a recipe for making (on a small scale) a varnish which will restore to shabby rubber boots and shoe a gloss such as is imparted by the manufac turers in the first instance. A. Digest 1 par of shellac with 10 parts of strong aqua am monia until thoroughly dissolved.

(8871) C. A. asks: Can you send m a formula for making condensed milk? A In general, condensed milk is made by evap orating in vacuum pans to about one-quarte of the original volume, and then adding 2 per cent to 30 per cent of cane sugar.

(8872) G. R. asks: 1. If there was a hole straight through the earth, and you wer to drop some heavy object into it, how fa would it go? A. If there was a hole through the earth, a ball dropped into the hole would fall as far beyond the center of the earth as i had fallen before it reached the center, if also we do not consider the resistance of the air. 2 Does a traction engine pull on the same prin ciple as a horse, or can it pull more with a longer hitch? A. A traction engine pulls ex actly as a horse pulls, or as any other power pulls. -

(8873) J. G. H. asks: I wish to raise water 60 feet with an air pump, for domes tic purposes. 1. Is it practicable? 2. If so what should be the relative sizes of the air and water pipes? 3. What is the best type of air hand compression pump to do the work 4. Would a two-cylinder or double pump, on cylinder a suction pump for water, the othe an air compression pump, be practicable? A There is no actual economy in raising wate 60 feet with air compressed by hand. There i great loss of labor on the compressed air b its discharge to refill the tank with water in using the tank system. The air lift system requires a well as deep below the water as th lift is above it. We advise that a combination air and water pump, such as you suggest, car not be made practicable.

(8874) A. P. A. asks: A dam is 1 feet high and 10 feet wide A claims that with 10 feet of water on one side and 7 feet on the other, that there is more pressure on th whole dam than there is when there is 7 fee on one side and none on the other B claims the opposite. A. The absolute pressure or the dam is due to the difference in the tota pressures at the level of the water on each side. Thus the total pressure at 10 feet minu the total back pressure at 7 feet is less than the total pressure of 7 feet on one side only We make the mean pressure per foot at 1 feet 309 pounds, and the mean pressure at feet 203 pounds, and 309 - 203 = 106 mean pressure, as against 203 pounds for the mea pressure at 7 feet. B is correct.

(8875) G. A. D. writes: I have been watching your paper for some information about the new copper goods put on the mar ket called "Royal" copper or "Olympia" cop per. It is a dark color, and it is claimed to wear without scratching. Will you please tel me how it is done, or if you have published it, in which paper you have it. A. To pro duce this color on copper, either dip in a solu tion of 2 drachms of antimony sulphide and ounce pearl ash in one pint of water, or boil for fifteen minutes in a strong water solution of tartar.

(8876) J. A. S. writes: Can you tel me or put me in the way of finding out how much a tall chimney made of brick will sway if it will sway at all? I do not know how to look for the information, and I want to be acquainted with the condition for personal sat isfaction. A. Tall chimneys that are smal in size sway in strong winds so much as to be easily observed and measured: 6 to 8 inches from the center is not uncommon with very tall factory chimneys. Bricks and mor tar are elastic.

## INDEX OF INVENTIONS

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March 3, 1903,

AND EACH BEARING THAT DATE.

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