

RECENTLY PATENTED INVENTIONS.

Agricultural Implements.

CULTIVATOR.—THOMAS OLDHAN, Leipsic, Indiana. In this invention devices are combined for plowing, harrowing, dragging and rolling the soil...

DRILL-TOOL SHAPER.—LOUIS F. NELL, 2558 W. Thirty-second Avenue, Denver, Colo. The inventor has devised a very simple and ingenious apparatus for enabling prospectors engaged in rock drilling...

DEVICES FOR GATHERING PRUNES.—OLIVER S. HOOVER, of Stanford University, and MORRIS T. HOOVER, Mount View, California. These inventors have produced an apparatus, constructed on radically new lines, for gathering from the ground the prunes...

COMBINED HAY AND STOCK RACK.—THOMAS A. RAPSON and HERBERT J. FURNES, Filion, Mich. As indicated by the title, this invention consists of a rack which may be adjusted to a wagon body either to constitute a stock rack, by so arranging it as to form vertical extensions of the wagon body, or folded outward...

Steam, Gas and Water.

PISTON VALVE.—WILLIAM BUCKLEY, Sheffield, England. Having in mind the danger of excessive compression taking place in the cylinder with the risk of bursting the cylinder or breaking of valve rings...

GAS-COCK.—ANDREW J. WIEGAND, Baltimore, Md. A new construction of self-lighting gas burners has been patented by this inventor. A special holder is provided for the lighting substance, such as platinum sponge lighting by contact with the gas...

ACETYLENE-GAS-GENERATING APPARATUS.—CHARLES W. METCALF, El Paso, Texas. The general construction of the apparatus enters into this patent. A prominent and novel feature is the feed devices for regulating the charge of water to the carbide chamber...

CISTERN-VALVE FOR WATER CLOSETS.—CHARLES SMITH, New York City, N. Y. A valve and appurtenances have been devised by this inventor, designed to prevent leakage from the tank or cistern into the flushing pipe. The outlet pipe rises above the water level...

Mechanical Devices.

PROPELLER.—SYLVANUS C. LITTLEFIELD, JR., Brunswick, Ga. This inventor has designed a propeller having blades of a special form with respect to the edge lines and the lines of curvature given the face of the blade...

FLOORING-CLAMP.—ARTHUR L. STOWELL and ARTHUR H. ROUNDS, Gay Mills, Wis. The clamp, designed by these inventors for clamping flooring-boards, siding, or the like where a tight joint is required...

joist at the side opposite the spur. The rotation of the handle bar exerts the desired pressure on the board.

Miscellaneous Inventions.

DISINFECTING-BLOCK.—SAMUEL EDEN, Brooklyn, New York city. The block is composed of mercury bichloride, disinfecting oils, talcum, and Portland cement. It is designed to prevent obnoxious gases from passing into a room through sinks...

SHAFT-TUG.—JAMES O'CONNELL, Mount Sterling, Ky. The O'Connell shaft-tug consists of a shank having a shaft-bearing on its lower end. On the shank a spring-pressed tongue is pivoted, having a cross-piece extending from one member of the bearing to and through the other...

AX.—SIEVE T. JOHNSON, Trinidad, Cal. This invention relates to axes having the cutting edges formed on parts removable from the ax-head, and the inventor has provided a new form for the mating portions of the head and removable blade and a special arrangement of securing keys.

SAND SHIELD FOR VEHICLE-AXLES.—EDWIN H. WILSON, Globe Village, Mass. This inventor provides an effective sand-shield arranged to be thrown upward and away from the hub when removing the wheel. The shield has a shank pivoted on the stock of the axle...

EYEGLASSES.—AUGUSTUS B. CRITZER, San Antonio, Tex. The attachments devised by this inventor are adapted to any make of eyeglasses and provide for holding and steadying the eyeglasses in proper position, by means of arms which effect a bearing above the eyes...

NECKTIE-FASTENER.—PHILIP N. SCHUYLER, Bellevue, Ohio. This invention relates particularly to neck-bows and string-ties. The fastener, which is made of wire, includes a loop or yoke for engaging the collar-button and ingeniously arranged hooks at the side or sides of the yoke...

BADGE-PIN.—GEORGE H. BROOKS, Louisville, Ky. The pin and backing plate, which relate to campaign badges and the like, are given a novel construction to insure a firm and positive fastening of the pin by spring action.

REBBER-HOLDER.—LLOYD E. HAMILTON and JOHN W. MILLER, Hudson, Ind. In this ribbon-holder, in which the ribbon-roll revolves, a spring clamp presses on the free end of the ribbon to prevent a too free unwinding, and the form is such as to permit of moving the spring-clamp bodily toward the center of the roll as the roll becomes smaller...

NOTE.—Copies of any of these patents can 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.

NEW BOOKS, ETC.

VERRES ET EMAUX. Par L. Coffignal. Paris: J. B. Baillière. 1900. 129 illustrations. Pp. 332. Price \$1.25.

This volume presents in concise form the most important process in the manufacture and enameling of glass. The work discusses the physics and chemistry of glass, its refractive properties, its varieties and their manufacture...

THE NAVAL WORDBOOK. (Die Seemanns-sprache.) Ein systematisches Woerterbuech marine-technischer Ausdruecke in englischer und deutscher Sprache. Von N. W. Thomas, M.A. Second edition, revised and enlarged. Pp. 177. 12mo. Limp cloth. Price \$1.25.

We have used the first edition of Mr. Thomas' dictionary more or less constantly for the last six months and have found it a very serviceable little book. The work has been considerably improved by the correction of a few errors and the addition of an excellently compiled list of English words...

Business and Personal.

Marine Iron Works. Chicago. Catalogue free. For mining engines. J. S. Mundy, Newark, N. J. "U. S." Metal Polish. Indianapolis. Samples free. Yankee Notions. Waterbury Button Co., Waterbury, Ct. Write Baker Mfg. Co., Racine, Wis., about pushing any new article. Facilities excellent.



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.

(7931) C. M. asks: 1. Can you give me any advice how to vulcanize bicycle tires? A. The process of vulcanizing rubber is described in the SCIENTIFIC AMERICAN SUPPLEMENT, Nos. 251, 252, 731 and 895...

(7932) W. W. S. asks: Does a piece of iron have more or less cubical contents when magnetized? I have tried to find out by using water and hair tubes, but I can see no change whatever. A. We should not expect to demonstrate any change in contents of an iron bar by magnetizing it.

(7933) L. C. S. writes: 1. As I understand it the resistance is what makes the field coil get hot. In order to avoid the heating more wire is added; now, if resistance is what heats the coil, how do you account for the coolness of the fields after adding more wire...

AMERICAN some time in the future? A. The induction motor has been fully treated in several books recently published: Ondin's "Polyphase Apparatus," price \$3 by mail; Thompson's "Polyphase Currents," price \$5 by mail. These, with Thompson's "Elementary Lessons," price \$1.40, will put you in possession of quite a complete library of the subject at present.

(7934) C. B. M. writes: I have a small motor which has a magnet in place of field winding. An electrical engineer told me if I put it on a large machine it would give greater power. I did so, and it does not give any power at all. It will run without a load, but will not run backward when current is reversed as it did before. A. A motor requires the proper current, that is, a current of the number of volts for which its winding was made.

(7935) E. H. W. writes: I read with much interest the article on M. Tommasina's automatic coherer, in your issue of June 16, 1900, page 376, and would like to ask if it is not possible that the decoherence of the carbon particles after the spark has passed may not be due to the return of the iron diaphragm in the telephone receiver to its original position...

TO INVENTORS.

An experience of over fifty years, and the preparation of more than one hundred thousand applications for patents at home and abroad, enable us to understand the laws and practice on both continents, and to possess unequalled facilities for procuring patents everywhere. A synopsis of the patent laws of the United States and all foreign countries may be had on application...

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending JULY 31, 1900. AND EACH BEARING THAT DATE.

Table listing various inventions and their patent numbers, including items like Air cooling apparatus, Alarm for low water, Albuminoids, Allo citral, Article applicable for various purposes, Bag lock, Bags, satchels, Ball car, Ball tie, Baling press, Barrel, Keg, or tierce, Bathing device, Battery, Bed bottom, Beds, Belt fastener, Belt tightener, Beverage dispensing device, Bicycle lamp holder, Bicycle lock, Bicycle saddle, Bicycle support, Bicycle wheel, Block, Blowers, Blowing engine, Boiler, Boiler incrustations, Book, account, Book, pocket record, Borax, making, Boring apparatus, Boring tool, Bottle finisher, Bottle neck finishing machine, Bottle stopper, Bottle stopper for aerated beverages, Bowling alley, Box, Stuffed box, Bracket, Bracket, W. F. Simon, Bracket, L. W. Macy, Brake block, automatic, Brake shoe, automatic, Brick machine with sander attachment, Bronchitis, Brush, horse, Bubbler pipe, soap, Building block, Building material, Buns, Car, Strassheim, Burner, Button collar, Button collar, F. J. Heilmann, Button, cuff, Button, cuff, J. Goldsmith, Jr., Button, machine, Button, machine, W. Carver, Cabinet, kitchen, Cabinet, kitchen, W. M. Henson, Cable hanger, Cables, means for connecting, Cake box, Calcining furnace, Camera front gripping device, Camera, photographic, Camera, roll holding, Camera side arm bracket spring, Can attachment, Can caps and collars together, machine for brazing, Can, tin plate packing box, Can, tin plate packing box, W. F. Simon, Car construction, steel, Car coupling, Car coupling, D. Bowers, Car coupling, M. A. Brown, Car coupling, T. Harrison, Car door, Car door, L. A. Hoerr, Car fender, Car fender, D. Smith, Car fender, S. J. Johnson, Car gear, motor, Car loading apparatus, Car mover, Taylor & Oglesby, Car, railway, T. L. State.

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