RECENTLY PATENTED INVENTIONS.

Agricultural Implements.

STRAW-STACKER. — Conrad Glaum, Audubon, Minn. The straw-stacker can be used in connection with any thrashing-machine, the straw being distributed so that a perfect stack can be readily built up. The stacker is so constructed that its entire body or trunk, including the delivery-spout, may be vertically adjusted without interfering with the blower or fan, and so that the delivery-spout may be horizontally adjusted independently of the vertical adjustment of the body or trunk of the machine.

Miscellaneous Inventions.

DISH-WASHER.—Franklin S. Hogg, Manhattan, New York city. The invention provides a device by means of which a dish may be securely held, turned in any direction, and every portion of its surface thoroughly cleaned without bringing the hand in contact with the dish or with the swab used for cleaning. The device comprises a clamping-section, a cleaning-section, and a connecting-section, all of which sections are adjustably and universally connected.

SASH-PULLEY.—John Duffy, Grand Rapids, Mich. The novel feature of the invention is a pulley-casing provided with side flanges and overlapping portions. One overlapping portion has an opening and the other a tongue. On the other end of the casing there is also a tongue. Both tongues are to be bent out into engagement with the end walls of the mortise after the casing has been inserted in the mortise. It is, therefore, evident that the pulley casing is easily placed in position.

NEWSPAPER OR LETTER-FILE. — Henry P. Krehbiel, Canton, Ohio. On a base, file or impaling studs are mounted, together with rotatable posts each having a lateral arm and arranged opposite the studs. On each of the posts a clamping-block is adjustable and arranged to engage the post. When the papers have been impaled on the studs, they are secured by sliding the blocks upwardly and turning the posts so that their upper free ends are located above the studs.

TRUSS.—Joseph Fandrey, Los Angeles, Cal. A pad is employed provided with a projected portion between the ends. The projected portion has an approximately horizontal lower wall which extends diagonally of the pad. The portion below the projected portion has a curved or dished upper face.

COMBINED PENCIL-HOLDER OR PROTECTOR AND LETTER-BALANCE.—Otto Beckmann, Mannheim, Germany. The inventor has combined a pencil-holder or protector with a letter-balance in such a manner that the exterior appearance of the former is not materially altered. The device is especially convenient for travelers who often find difficulty in ascertaining the weight of their letters.

CANDLE-HOLDER.—Martin Hagen, Cashton, Wis. That Christmas trees are easily set on fire when a candle has burnt down to the last has been only too fatally proven time and time again. Mr. Hagen, in order to prevent this danger of fire, provides an improved candle-holder and automatic extinguisher. From the holder a vertical guide extends, which supports an angular plate resting on the candle, and a reflector. As the candle burns away, the plate descends, carrying with it the reflector. When the candle has all been burnt, the reflector is caused to drop upon the wick so that the flame is extinguished. The action is entirely automatic.

INK-PAD STAND.—Edward G. Woody, Wilmington, N. C. The object of the invention is to provide a new ink-pad or casing for removably holding an ink-pad and preventing dust from settling on the pad, thus insuring at all times a good inking of the stamp. The pad is received by a casing having an inclined, self-closing cover adapted to swinging rearwardly upon pressure from the hand carrying the stamp. When the stamp has been inked and withdrawn from the box the cover closes.

GAS-BURNER.—Theodore E. Sinnberg, 54 Vicarage Road, Camberwell, London, England. The invention relates to atmospheric gas-burners used for incandescent lighting and has for its object to enable the gas supply and air supply to be regulated to each other so as to secure the best possible result in illumination. The invention also enables an ordinary luminous flame to be temporarily obtained without removing the atmospheric burner, should the incandescent mantle become unserviceable when a new one is not at hand.

DENTIFRICE-BOTTLE. — Carr-Lowrey Glass Company, Baltimore, Md. Dentifrice bottles have usually a glass body, a metal cap, and a cork-stopper. The metal is so easily corroded and tarnished, that the goods cannot be sold when kept in stock for a considerable time. Labels usually cover and conceal the cork. Sometimes bayonet-joint stoppers are employed, as well as valved plugs. The present invention improves upon all these forms and marks a new stage in the manufacture of dentifrice bottles. The stopper is screwed in the neck. In a discharge-opening in the stopper a plug or valve fits, which is locked in place by means of a groove and a coacting lug. The construction of the bottle is such that material is saved, that the parts cannot corrode and can be readily removed and replaced.

Designs.

BOX-BLANK.—Carl Engberg, St. Joseph, Mich. The design in its entirety consists of center piece, having rounded corners and side flanges extending from the sides of the center piece and having at their ends somewhat inwardly-deflected end flaps. Each flange has narrow flaps on its outer side, reaching onto the end flaps. The ends of the center piece have end flanges, extending between opposite end flanges and projecting somewhat beyond them.

FURNITURE-BUFFER.—Siegmund Salomon, Manhattan, New York city. The buffer has a circular body portion, at one side of which is a central semispherical projection; and extended from the edge at the opposite side are tooth-like structures.

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(7991) H. S. asks: How is the carrying capacity of German silver wire calculated? A. The carrying capacity of German silver wire can be calculated if its composition is known, but the variations from the theory will be so great in any practical case that it is better to determine carrying capacity experimentally, that is, find what size of wire will carry the current without overheating. The factors for the calculation of carrying capacity are the specific heat, the temperature coefficient, the emissivity, and the specific resistance. The specific heat of German silver of copper 60 parts, zinc 14 parts, and nickel 26 parts, is 0·097, that of copper is 0·093. Hence to heat the German silver wire as much as the same size of copper wire will require $\frac{97}{93}$ as much current. But the temperature coefficient of German silver is 0·1: hence ten times as much current will be required to heat a wire of German silver as would be required to heat one of the same size of copper. The specific resistance of German silver is 13, as compared with copper. Hence the heat of the German silver wire will be generated in a wire of $\frac{1}{13}$ the length and surface as that of a copper wire of the same size. Hence the emissivity of the German silver wire is involved. We are not able to find any data of the radiating power of German silver as compared with copper. If you have this factor, use it as above and the carrying capacity will be the product of the several factors multiplied by the carrying capacity of copper wire.

(7992) A. E. C. asks how to make spark coil that in connection with two or three cells of dry cell battery will give spark large enough to light a gas jet? A. For the dimensions of a spark coil, see Scientific American, vol. lxxxii, No. 26, answer 7905, price ten cents.

NEW BOOKS, ETC.

Up-to-Date Air-Brake Catechism. By Robert H. Blackall. Twelfth Edition, Revised and Enlarged. New York: Norman W. Henley & Company. 1900. 12mo. Pp. 254. Price $1.50.

The subject is a most important one, and railway men cannot be too well posted on the latest developments in air-brake practice. The present volume is now in its twelfth edition, which is sufficient guarantee of the excellence of the work. The question and answer style which has become so popular among railway men is retained. The diagrams are particularly clear.

The Electro-Magnet. Edited by Townsend Wolcott. Jersey City: Varley Duplex Magnet Company. 16mo. Pp. 60.

The author develops the electro-magnet along a new line which, on the whole, is rather interesting. Specific instructions are given for designing magnets of various sizes. Various formulas are also given.

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Printing press automatic ink fountain, J. S. Goheen 661,737
Printing press, flat bed, Whitlock & Huson 661,924
Propelling apparatus, air draft, H. J. Newmarker et al 661,724
Prospecting shovel, Sheehy & O'Neill 661,774
Pulverizer, W. M. Ernst 661,796
Pulverizer, A. F. Peterson 661,814
Pump, J. M. Morris 661,938
Pump, double cylinder, W. Hull 661,874
Punch, ticket, W. H. Shands 661,896

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