

ELEVATOR-CARRIER.—EGBERT J. HOOKER, Poulney, Vt. The present invention provides a carrier adapted for use in quarries, which carrier is so constructed that it will travel on an elevated track or cable at any desired speed, it being possible to stop the carrier at any desired point on the cable or track.

EXERCISING DEVICE.—ABRAM A. HENRICKSON, Jamaica, Queens, New York city. This invention provides a novel handle for exercisers, consisting of a handle-bar having a frame upon which a finger-bar is adapted to slide longitudinally, the elastic cord being attached to the bar. The handle-bar is held in the palm and the fingers are passed over the finger-bar.

HAND-STAMP.—HENRY H. HARRISON, Manhattan, New York city. This invention provides a hand-stamp for making reproductions from copying-ink, the printing surface being formed of a plastic or viscous compound mounted or run into the proper form and then permitted to set. The stamp has a body curved in the arc of a circle and provided with a handle-bar running between its ends, so that the stamp may be held in the hand, and its arc-shaped printing surface rocked over the surface to be printed, all of which provides a much more effective and expeditious arrangement than that in which the surface to be printed is laid down on a stationary printing pad or form.

EXTENSION-TABLE.—WILLIAM R. HALLETT, Hamburg, Ill. The inventor has devised a table provided with simple means for automatically raising the intermediate leaves into place while the table is being extended, and for lowering the leaves while the table is being shortened. The table comprises two frames mounted to slide one relatively to the other. To each frame a table-top section is rigidly secured. Plates are mounted to swing on the inner surface of one of the frames and are engaged by intermediate leaves. Rock-bars have cam ends engaging the plates; and from the rock-bars yielding tappets extend down and are engaged by a cross-bar carried by one of the frames.

ORE-CONCENTRATOR.—HENRY C. GRANNATT, Colorado Springs, Col. In the frame of the concentrator are a series of slats pivoted at their lower edges, each having a riffle extending along its pivoted edge. The slats are placed in successively lower planes so that the overflow from one is received by the next. The riffles extend from the feeding end of the slats a part only of their length and are of successively greater length. The frame can be reciprocated longitudinally of the slats; and the slats are simultaneously given a slight oscillation on their pivots. The device may be used in places where the supply of water is limited.

DEVICE FOR TEACHING MUSIC.—JOHN MORRIS, Marshall, Tex. The purpose of the inventor has been to provide an improved mechanical device whereby simple music in any key can be readily taught. The device comprises a modulator provided with columns containing characters indicating every semitone and tone within the tonal compass of the modulator, and also provided with rows of hooks adjacent to the characters. A tone-ladder is provided with arms to engage the hooks and to indicate the steps in the diatonic scales of the characters in the columns. Independent arrows are provided to indicate the tones contained in any desired scale or chord.

SEA-GOING RANGE-FINDER.—JOHN DONEGAN, Cincinnati, Ohio. The range-finder comprises two telescopes arranged in the same horizontal plane, one of the telescopes being pivoted to swing relatively to the other. A cylinder extends longitudinally of the telescopes and turns in unison with the swinging of the pivoted telescope. The cylinder is provided with rows of numerals indicating distances which can be read by a longitudinally-extending fixed bar. An indicator at the rear end of the cylinder indicates the row of numerals on the cylinder on which the distance is to be read. This indicator comprises a fixed disk having graduations corresponding with the graduations of the fixed bar. A pointer moves on the disk in unison with the cylinder and pivoted telescope.

COMPOSITION OF MATTER.—GUSTAV T. BRUCKMANN, Brooklyn, New York city. The purpose of the present invention is to provide a means whereby an oxygenated agent may be added to hydrogen peroxid in sufficiently large quantities to preserve the peroxid without producing the disagreeable and painful effect on the tissues incident to the use of mineral acids. To this end the inventor employs carbon dioxide, which disappears largely at the time the peroxid is medicinally used, and is present in large quantities only so long as its preserving action is required.

STRAP-PROTECTOR.—EDWARD G. AWCOCK, New Orleans, La. This simple, metallic, protective device for harness is entirely independent of the strap to which it is applied. The device is adapted for connection with a buckle and for receiving a ring, snap, or other connecting medium between straps in a harness. The loop-attachment of a buckle to a strap need not be dependent upon for security. The connections between the straps will not wear the leather.

WRENCH.—ALEXANDER ANDERSON, Greenville, Miss. The novel feature of this invention is found in a peculiar nut, slidable on the shank when in one position and locked against sliding when in another position, so that the jaw in one case can be moved, while in the other position it is locked against movement. The jaws are so arranged that they cannot readily become disarranged, and that they can securely grip an object without danger of the movable jaw's slipping or losing its hold on the object.

CONCENTRATOR.—JOHN C. and RICHARD C. WATERS, Romley, Colo. On a vertically-sustained pivot a head is mounted to rock. Two relatively adjustable arms are attached to and extend oppositely from the head. A third arm is secured to the head, and extends between the two first-named arms. On the three

arms a segmental table is mounted which is adjustably supported at its outer edge. A curved trough is secured at the inner edges of the table adjacent to the pivot; and a flange is located at one edge of the table adjacent to the trough, the opposite edge of the table being adapted to discharge the concentrates, and the curved trough being adapted to receive the tailings.

COMBINED ADVERTISING-CABINET AND BOOKCASE.—WILLIAM F. PATTON, Akron, Ohio. This device is designed for use in hotels and other public places and is arranged to display advertisements effectively and to contain books of reference. The bookcase used is provided with receptacles for books and has an advertising space at its front. Wings at the sides of the bookcase are arranged for displaying advertisements, are connected by hinges with the sides of the bookcase, and are adapted to be swung forward or rearward into angular positions relatively to the bookcase. A cap for the top of the bookcase is provided with advertising-spaces.

MAIL-BAG.—LOUIS SANDERS, Brooklyn, New York city. This invention provides a mouth-controlling and mouth-locking device which will effectually hold the mouth of the bag open to receive letters and packages and which will also hold the mouth closed. The mechanism at the mouth of the bag can be quickly operated. A receptacle is also provided for the destination card, in which receptacle the card is automatically retained when the controlling mechanism is locked, and released when the mechanism is opened.

CHANGE-MAKER.—PETER P. McMENAMIN, Jersey City, N. J. This invention provides an improved change-maker to enable cashiers and bartenders to make change quickly and correctly and to prevent so far as possible the occurrence of errors when paying out money or changing bills or coins of higher denomination. The change-maker is provided with cells for containing stacks of coins. Under each cell is a single slide for moving the bottom coin from under the stack. Each slide is manually operated and is arranged to be moved independently of the other slides. A series of slides can be mechanically operated at the same time.

SHIRT-BOSOM HOLDER.—CHARLES L. PASHLEY, Stamford, N. Y. In order to secure the opposite edges of a bosom to a vest so that the vest cannot spread and bend the shirt-bosom, the inventor provides a plate having prongs at one end for attachment to the vest, and a hook at the other end. The plate is extended inwardly from the edge of the front opening. A loop engaging the hook is removably connected with the shirt.

PACKAGE FOR INCANDESCENT-MANTLES.—HENRY ANHALTZER, Manhattan, New York city. The package comprises a casing, to the bottom of which a support for the mantle is secured. A supporting-bar extends through a loop at the top of the mantle and has its ends sprung into the upper portion of the casing, after which the casing is filled with collodion, alcohol, or ether. A mantle thus packed can be safely transported.

BATING PROCESS.—HENRY SCHLEGEL, Lapeer, Mich. After hides have been unhaired and before they are tanned, they are subjected to a "bating" process by which the lime is removed. Various acids have been used in the process, but bating has always required much care and skill. The inventor of the present process secures a simple bate by employing a solution consisting essentially of potassium bichromate.

DUST-GUARD.—JAMES S. PATTEN, Baltimore, Md. The guard is composed of sections of sheet metal slidable with relation to each other and having opposite, curved edges provided with integral bent portions forming seats for packing-strips. The guard can be cheaply constructed. The wearing parts can be readily renewed.

FOLLOWER FOR PACKING BARRELS.—NORRIS M. ROOT, Masonville, N. Y. This invention provides improvements in devices for packing or holding meat, pickles, fish, or the like, under brine in a barrel. The follower used for this purpose is easily adjusted to the varying diameters of a barrel and has no metal parts to corrode. The follower comprises a disk or plate having guide-strips extended in opposite directions, which strips have longitudinal slots provided with notches in their lower walls. Holding-arms and cross-heads on the arms project into the slots, one thickness of the portions of the cross-heads being substantially equal to the distance between the walls of the slots, and the thickness at right angles to the first-named thickness being greater than the distance between the walls of the slots.

COPY-HOLDER.—LOUIS HUDGIN, Lochiel, Arizona. This holder rests on the desk of a typewriter and holds the copy in an inclined position over the machine and directly in front of the eyes of the operator. It consists of a rectangular vertical support frame hinged to foot pieces which are fastened to the desk, and having two pairs of hinged arms projecting out at an angle from its front face, one pair being at the center of the frame and the second or shorter pair projecting from the top. These arms carry the copy-holder, which may be adjusted in position. The copy-holder has been designed with the especial object of doing away with the necessity of fastening the device to the desk or machine.

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HANDBUCH DER RATIONELLEN VERWERTUNG, WIEDERGEWINNUNG, UND VERARBEITUNG VON ABFALLSTOFFEN JEDER ART. Von Dr. Theodor Koller. Vienna: A. Hartleben. 1899. Pp. 320. Octavo. With 22 illustrations. Price, paper, \$1.25.

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