No. 26,393. Die for Drawing Cartridges and other Blanks from metal. (Etampe pour Laminer les Cartouches et autres ébauches en Métal.)

Rollin White, Lowell, Mass., U.S., 5th April, 1887; 5 years.

Claim.-lst. The combination of a die, composed of two or more superimposed plates, contained in one or more die-holders, one or more of said die-holders having a die-chamber larger than the plate of said die-chamber, and an elastic packing interposed between said die and the said die-chamber, substantially as shown and described. 2nd. The combination of a die, composed of two or more superim-posed plates contained in one or more die-holders, one or more of said die-holders having a die-chamber larger than the plate of said die contained in said die chamber, and an elastic packing interposed between said die chamber, and an elastic packing interposed between said die and the sides of said chamber, as and for the pur-pose specified. 3rd. The combination of a die, a die-holder having a die-chamber larger than said die, an elastic packing surrounding said die, a metallic ring surrounding said packing, and two or more screws thrusting against said ring, as and for the purpose specified. 4th. A die, composed of two or more superimposed plates, in two or more die-holders, all of said die-holders being provided with die-chambers somewhat larger than the plates contained in said die-holders, so that all the plates composing the die may have a slight lateral motion for the purpose of adjusting themselves to the work, substantially as shown and described. Claim.-1st. The combination of a die, composed of two or more

No. 26,394. Chill for Small Castings.

(Coquille pour Coulage de petites Pièces.)

Claim.—1st. The obill or "print." A, pressed when in the mould against the rear face of the back plate, and having formed in it recesses to receive tapered bolts with projecting heads forming holes in such back plate all as herein set forth. 2nd. In combination with the obill or "print" A, with outwardly-turned performations α , at the tapered bolts B, B, with countersunk flat heads B1, B1, substantially as and for the purpose set forth. Candide W. Croteau, Longueuil, Que., 5th April, 1887; 5 years.

No. 26,395. Puzzle. (Jeu de Patience.)

Henry Oellrich, Detroit, Mich., U.S., 5th April, 1887; 5 years.

Claim.—In a puzzle, the combination of the leaves A, B, the straps a. a_1, b, b^1 , and the folding papers C, C₁, attached to opposite sides of the straps b, b_1 , substantially as described.

No. 26,396. Timber Roll.

(Rouleau à Bois de Charpente.)

Robert M. Webb, San Francisco, Cal., U.S., 5th April, 1887; 5 years. **EXCOUPT M1.** Webb, San Francisco, Cal., U.S., oth April, 1857; 5 years. Claim.-1st. The anti-friction rolls C and bent adjustable stan-dards D, in combination with the frame B and B¹ and roll A, for the purpose of holding the timber over the roll and relieving the friction, constructed and operated substantially as and for the pur-poses set forth 2nd. The anti-friction rolls C and standards D, with set-serews E, in combination with the frame B and B¹ and the pivot or turn-table F and G, for the purpose of turning and guiding the timber while avoiding friction, constructed and operated substan-tially as and for the purposes set forth.

No. 26,397. Machine for Grinding Mower Knives. (Machine à rémouler des couteaux des faucheuses)

The Mower Knife Grinder Company, New York, (Assignee of Rufus Dutton, Yonkers), N.Y., U.S., 5th April, 1887; 5 years.

The Mower Knife Grinder Company, New York. (Assignee of Rufus Dutton, Yonkers), N.Y., U.S., 5th April, 1887; 5 years. Claim.—1st. In a machine for grinding mowing machine knives, thecombination, substantially as hereinbefore described, of a knife clamp, a grinding wheel, means for reciprocating either of them for presenting to the grinding surface a knife edge progressively from the bottom of a V to the top of an edge, and a clamp-controlling spring which exerts its minimum force during the presentation by the clamp of the inner end of a knife edge a grinding surface, and a greater force when presenting the outer end or tip of a knife edge to said surface, and is coupled to the reciprocating mechanism and graduated in its force thereby, substantially as described, whereby the pressure of a knife held by said clamp is increased progressively chine knifes edge. 2nd. In a machine for grinding mowing ma-chine knifes edge. 2nd. In a machine for grinding mowing ma-chine knifes, the combination, substantially as hereinbefore de-scribed, of a knife clamp, a grinding wheel mounted upon a recipro-cating arm or lever, a clamp-controlling spring coupled to said wheel arm and varied in its force while pressing a knife against the grinding surface, as a result of the various positions assumed by said wheel arm during its reciprocatory movement. Srd. In a mower knife grinding machine, the combination, substantially as herein-before described, of a grinding wheel mounted at one end of a pivoted arm, a knife clamp frame pivoted to swing toward and from the grinding face of said wheel, arms at the foot of said frame, a pivoted lever bearing downward npon said arms, and a clamp-controlling spring coupled to the opposite end of said lever, and also to said wheel arm between its pivot and the wheel, whereby as the result of vertically moving said wheel the pressure of said spring applied at the rear of the edgen frame is progressively increased. 4th. In a mower knife grinding machine, the combination, substantially as hereinbe

surface affording a longitudinal seat for the rear edge of a knife bar, and having a centrally located bolt affording a shoulder for engaging witd the outer edge of a knife bar, and two pairs of independent ver-tical clamping jaws located at opposite sides of said bolt, whereby the central portion of a mover knife may be securely confined by the use of either or both of said pairs of jaws, and also whereby either of the pairs of jaws and said bolt shoulder can be relied upon for se-curely holding either end of a knife while grinding the end sections thereof. 6th. The combination, substantially as hereinbefore de-scribed, of the grinding wheel, the knife clamp and its frame, the latter being pivoted at its lower end to a base plate, a horizontal bar on said frame serving as a seat for the rear edge of a mower knife jaws each provided with a separate clamping bolt, forwardly project-ing arms at the base of said clamp frame, and a spring for forcing said arms downwurd and thereby forcing the knife clamp toward the grinding face of the wheel. The In a mower knife grinder, the com-bination, with a grinding wheel internally chambered for the recep-tion of water, of a radial water duct having an external feeding aperture, and an internal exit located within the wheel, substantially a described, whereby water can be readily supplied to the ohamber, and then securely retained therein without closing said duct regard-less of variations in the position of said wheel and whether the same be in or out of use. be in or out of use.

No. 26,398. Musical Instrument.

(Instrument de musique.

Robert F. Flemming, jr., and Anthony Lux, jr., Melross, Mass, U. S., 5th April, 1887; 5 years.

<text><text><text>