

with mechanism, substantially as described, for supporting and operating the same, a rotary wheel having fixed type, and pressor devices, substantially as described, opposite to the faces of the type, and having both a rotating movement about the axis of the wheel, and a movement to and from the faces of the type during such rotation. 6th. In combination with the rotary cylinder, the slides arranged to protrude endwise therefrom, the keys operating directly on the slides to project the same, and the cam plate located at the front of the cylinder, and acting to push the slides inward. 7th. The combination of the type-wheel and the cylinder provided with the endwise moving slides, and a toothed pressure-wheel arranged to force the slides upon the type, substantially as set forth. 8th. The combination of the type-wheel, the cylinder B, the sliding and radially-moving rods, the dog I and the toothed wheel J. 9th. In a printing or indenting machine, the combination of the rotary type wheel, one rings, substantially as and for the purpose described. 10th. In combination with the type-wheel provided with fixed type, the cylinder B, slides C and pressure devices arranged to act upon said slides, the pressure device N and a device, substantially as shown, arranged to raise said pressure device from the strip previous to each impression or indentation. 11th. In combination with the type-wheel and an intermediate pressure device, substantially as shown, a pressure-wheel J having teeth c, inclined or bevelled, substantially as and for the purpose described. 12th. In combination with the wheel having fixed type, a cylinder concentric therewith and slides mounted in the cylinder, and each capable of moving both endwise and radially in relation to the cylinder, in order to co-operate in conjunction with the faces of the type, substantially as described and shown. 13th. The combination of the rotary cylinder, the movable rods therein, the finger keys to advance the rods, the wheel with fixed type and a pressure device to move the extended rods toward the type. 14th. In combination with the cylinder, its slides or rods and the finger keys to actuate the slides, the laterally movable wheel provided with two or more circumferential lines of type, and a cam-wheel or pressure device also movable laterally. 15th. The combination, with mechanism for presenting the paper, of a laterally movable type-wheel, a laterally movable feed or pressure wheel, and mechanism common to the two wheels for effecting their simultaneous adjustment. 16th. The combination, in a printing or indenting machine, of an impression device acting upon or against the type, and a wheel to operate said device, provided with teeth having concentric extremities but of different lengths on the circumference. 17th. In combination with a wheel, provided with a series of fixed type, means, substantially as described, for sustain the paper against the type, and a pressure-wheel to cause the impression having teeth with concentric extremities but of varying length on the circumference. 18th. The combined pressure and feed wheel having the teeth with concentric ends, but of varying widths and inclinations on the circumference. 19th. In combination with the cylinder, its rods or slides and the finger keys, a locking device common to all the keys, and means, substantially as described, for moving the same to and fro. 20th. The cylinder, its rods or slides, the finger keys, a locking bar common to all the keys, a spring to advance the bar for engagement, and a cam or like device to cause its positive retraction.

### No. 21,801. Metallic Ceiling.

(Plafond Metallique.)

Albert Northrop, Pittsburg, Pa., U.S., 5th June, 1885; 5 years.

*Claim.*—1st. The cap or molding A, the edges B of which are provided with corrugations or crimps C, in combination with a sheet of metal having corrugations or crimps, substantially as hereinbefore described and for the purpose set forth. 2nd. In a metallic ceiling, a cap having corrugated edges, said edges being provided with openings for the reception of nails, in combination with a corrugated plate provided on its edge with openings adapted to register with the openings in the corrugated cap, said plate and cap openings being larger than the nails, whereby the parts may expand and contract without displacing the nails, substantially as described and for the purposes set forth.

### No. 21,802. Moulds for Casting Slugs and Leads for Printers' Use. (Moules pour Couler les Interlignes et les Blancs d'Imprimerie.)

George W. Surguy, Columbus, Ohio, U.S., 5th June, 1885; 5 years.

*Claim.*—1st. A mould for casting slugs or leads, provided with inner strips of wood, or of similar non-conducting material, substantially as and for the purpose herein described. 2nd. A mould for casting slugs or leads, comprising two plates lined with a non-conducting substance, in combination, strips of wood, or similar non-conducting material, substantially as described.

### No. 21,803. Farm Harness. (Harnais de Travail.)

Melvin W. Huffman, London (Assignee of Isaac Ireland, Mount Forest.) Ont., 5th June, 1885; 5 years.

*Claim.*—1st. The evener E, provided with an arch A, adapted to pass over the tongue T to enable this harness to be used with a wagon or other vehicle provided with a tongue, substantially as shown and described. 2nd. The evener E, provided with an arch A and curves C, adapted to fit the horse so that, when harnessed and working this evener will not chafe or strike against the horse, substantially as set forth. 3rd. The evener provided with an arch A and curves C, C, in combination with the tongue T, hooks H, H, chains G, G, grooved pulleys J, J, and chains I, I, I, substantially as shown and described and for the purpose specified.

### No. 21,804. Water Purifying Apparatus.

(Appareil à Purifier l'Eau.)

Pascal B. Charbonneau and William H. Southworth, Bay City, Mich., U.S., 5th June, 1885; 5 years.

*Claim.*—1st. In a water purifying apparatus, the combination of an evaporating chamber and condensing chamber placed directly over the said separating chamber, and provided with means, as described, for conducting vapour from the said evaporating chamber to the condensing chamber, and a cold water reservoir above the said condensing chamber, substantially as and for the purpose set forth. 2nd. In a water purifying apparatus, the combination of an evaporating chamber and a condensing chamber located directly over the said evaporating chamber, and provided with means of conducting vapour from the said lower chamber to the condensing chamber, and a cold water reservoir located directly over the said condensing chamber, with a supply pipe for conducting the water from the said cold water reservoir to the said evaporating chamber, and means, as described, of regulating the flow of water through the said pipe, substantially as specified. 3rd. In a water purifying apparatus, an evaporating chamber A and a condensing chamber B located directly above the said chamber A, and a pipe N connecting the said chambers with the deflecting plate E attached to the top of the said chamber B, and the deflecting plate F attached to the outsides of the said chamber and provided with the central opening G, and the opening H on its outer edge, substantially as set forth and shown. 4th. In a water purifying apparatus, the combination of an evaporating chamber A and a condensing chamber B located directly over the said chamber A, and a pipe N connecting the said chambers with an air chamber L located between the said chambers A and B, and provided with the holes M in the sides thereof, substantially as and for the purpose set forth.

### No. 21,805. Compound of Herbs to be used as a Blood Purifier for the Relief and Cure of Rheumatism, Dyspepsia, etc. (Composition d'Herbes servant à Purifier le Sang pour le Traitement et la Guérison du Rhumatisme, de la Dyspepsie, etc.)

Luther L. Moore, Victoria, B.C., 5th June, 1885; 5 years.

*Claim.*—A compound of the following herbs: barberry bark, the moss of the bark of the salmon berry, and wild licorice, substantially in the proportions and for the purposes set forth.

### 21,806. Manufacture of Horse Collars from Leather Scraps. (Fabrication des Colliers de Cheval avec des Morceaux de Cuir.)

James Stanley and Theodore F. Lemassena, Newark, N.J., U.S., 5th June, 1885; 5 years.

*Claim.*—1st. As a new article of manufacture, a horse collar formed of scraps of leather united by suitable cement, and having a recess formed in the front side, and provided with means, substantially as described, for securing a pad in such recess, as and for the purpose set forth. 2nd. As a new article of manufacture, a horse collar formed of scraps of leather united by suitable cement, and having a recess formed in the front side and covered by flaps integral with the back of the collar. 3rd. The process of forming a hollow collar consisting in, first, pressing or moulding the collar with flaps at the sides of the intended hollow, then pasting down the flaps to cover the hollow, and then drying, and finally pressing the pasted flaps to the finished or desired form. 4th. The combination, with a collar moulded of scraps of leather, as described, of a strip or strips of raw hide inserted in the bottom of the collar, substantially as and for the purpose set forth.

### No. 21,807. Saw Set. (Fer à Contourner)

Wilhelm Kopf, Santa Rosa, Cal., U.S., 5th June, 1885; 5 years.

*Claim.*—1st. In a saw-set having a suitable die, and a hammer between which the teeth of the saw are fitted to be set, an oscillating rest or bench, upon which the blade of the saw is supported, said rest or bench being adapted to be moved by an oscillating nut and screw to or from the plane of the die and hammer, to accommodate different widths of blade, and up or down to support the blade at a suitable angle with the horizontal plane of the die, substantially as herein described. 2nd. In a saw set, the frame A having transverse recess or groove a, with the die B and the hammer C, in combination with the bench or rest E parallel with the recess or groove a, and an oscillating screw and threaded bolt by which said bench or rest may be raised or lowered, to support the saw blade at an angle with the horizontal plane of the groove or recess, substantially as herein described. 3rd. In a saw set, the frame A having transverse recess or groove a in its face with a die B and the hammer C, in combination with the bench or rest E, parallel with the recess or groove, and a means by which said bench or rest may be adjusted to or from said recess or groove, consisting of a screw F passing through the bench and through a suitable nut in the frame A, substantially as herein described. 4th. In a saw set, the frame A having transverse recess or groove a, with a die B and the hammer C, in combination with the bench or rest E, and the means by which said bench or rest is adjusted up to support the saw blade at an angle with the horizontal plane of the groove or recess, consisting of the arms H and the oscillating pin or bolt I through which the arms loosely pass, substantially as herein described. 5th. In a saw set, the frame A having transverse recess or groove a in its face, with a die B and the hammer C, in combination with the bench or rest E and the means by which said bench or rest is adjusted to or from the recess and up or down, consisting of the screw F passing through the bench, the oscillating pin or bolt G with its nut g through which the screw F passes, arms H and the oscillating pin or bolt I through which said arms loosely pass, substantially as herein described. 6th. In a saw set, the frame A having transverse groove or recess a in its face, with the die B and the hammer C, in combination with the bench or rest E, and the means by which said bench or rest is adjusted to or from the recess or groove and up or down, consisting of the screw F, the oscillating pin or bolt G, having nut g, through which the screw passes, arms H and oscillating pin or bolt I, through which the arms