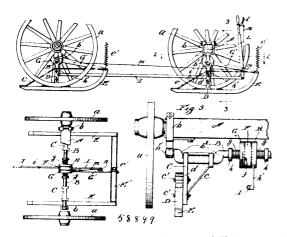
sisting of a plurality of holding-bars, comprising two longitudinal vas, or similar appropriate materials. 2nd. The application of the sections to form said bar, mortised seats formed in one of said sections, rubber discs held therein, holes through the sections and discs, V shaped metal frames having a plurality of seats for the ends of the holding-bars, and suitable braces for holding the frames rigid, substantially as and for the purpose described.

#### No. 58,899. Vehicle. (Vehicule.)

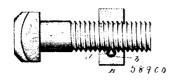


Axel E. Johnson, Chicago, Illinois, U.S.A., 3rd February, 1898; 6 years. (Filed 24th January, 1898.)

6 years. (Filed 24th January, 1898.)

Claim.—1st. The combination, with the axle of a vehicle, of a crank-shaft rotably secured parallel therewith, a pair of sleighrunners pivotally secured on the cranks of said shaft, the ratchetwheel F fixed on the shaft and having the openings f in its periphery, the spring-actuated ratchet-wheel G located on one side of the wheel F, and having the arm or bar  $G^1$  fixed at its front end and provided with the spring-actuated bolt  $g^2$  to engage the openings f in the ratchet-wheel F, the movable ratchet-wheel H, on the other side of the ratchet-wheel F, and having the arm  $h^1$ , the operating-lever L, suitably fulcruned and connected to the arm  $h^1$  of the ratchet-wheel H, a bell-crank lever I fulcruned on the operating lever, and the cord or wire m connecting one end of the bell-crank lever and the spring-bolt  $g^2$ , substantially as described. the bell-crank lever and the spring-bolt  $g^2$ , substantially as described.

No. 58,900. Nut-Lock. (Arrête-écrou.)

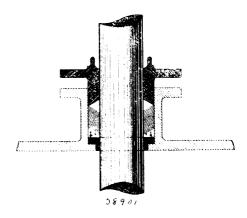


William E. Waldron, Washington, Pennsylvania, U.S.A., 3rd
 February, 1898; (Filed 24th January, 1898.)
 Claim.—1st. In a nut-lock, a nut provided with an aperture closed

at one end and threaded at the other, a longitudinally tapered locking-dog positioned in the aperture, and a spring also located in the aperture to effect a movement of the locking-dog towards the open aperture to effect a movement of the locking-dog towards the open end of the aperture, together with a seriew for moving the locking-dog towards the spring, substantially as shown. 2nd. In a nut-lock, the combination with a bolt of a nut provided with a recess, a lock-ing-dog or bolt which is tapered longitudinally and provided with angular sides which are adapted to engage with the thread of the bolt, a spring for effecting a movement of the locking-dog in one direction, and a closure for the aperture, as a screw, for moving the locking-dog in an opposite direction from which it is moved by the spring. 3rd. In a nut-lock, a nut provided with an aperture  $b_r$  closed at one end and threaded at the other, a spring c located at one end of the aperture, a screw having a reduced end  $c^+$ , and a locking-dog or bolt positioned in the aperture between the spring and screw, said locking-dog being tapered longitudinally and pro-vided with converging sides with roughened faces, said sides being of the same angle as the angle of the threads of the bolt, substantially as shown and for the purpose set forth.

### No. 58,901. Mechanical Packing. (Garniture mécanique.) Carl Lutze, Berlin, Germany, 3rd February, 1898; 6 years. (Filed 24th January, 1898.)

Claim.—1st. An improved packing for flanges of steam, gas or water apparatus, stuffing boxes, and pistons, consisting of layers of metal paper lying over one another, or of thin galvanically or mechanically produced metal foils in connection with elastic soft and oil conducting interposed layers of paper, paste board, fabric, can-

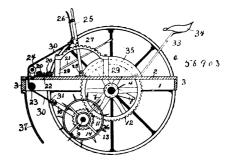


in layers lying loosely on one another at an angle to the direction of steam pressure for the purpose of obtaining a tightening of the packing operating automatically in proportion to the steam pressure.

# No. 58,902. Medicinal Compound. (Composé médecinal.) Alphonse Brochu, Sherbrooke, Quebec, Canada, 3rd February, 1898; 6 years. (Filed 6th December, 1897.)

Résumé,—Un liniment composé d'huile de canelle, de térrébenthine, de camplire et d'alum dans les proportions ci-dessus décrites et pour les fins indiquées.

## No. 58,903. Rotary Harrow. (Herse rotative.)



Leonard Spangler, Lafayette, Indiana, U.S.A., 3rd February. 1898; 6 years. (Filed 25th January, 1898.)

Claim. In a rotary harrow, the combination of the platform, having the boxes 5, the axle 4 mounted therein, the ground-wheels loosely mounted upon the end of said axle respectively, the driving-gears 12 rigidly mounted upon said axle, the swinging-hangers loosely mounted upon said axle, said hangers having their arms 8 adapted to limit their rearward movement, the shaft 9 mounted in said hangers, the gears 11 rigidly mounted upon said shaft and adapted to be driven by the gears 12, the toothed cylinder 13 mounted upon said shaft, means for raising and lowering said cylinder, the clutches 15 loosely keyed upon the axle 4 and adapted to be thrown into engagement with the ground-wheels and also to be shifted therefrom and thrown into engagement with the boxes 5, and means for shifting said clutches, substantially as shown and described.

## No. 68,904. Envelope Opener.

(Appariel pour ouvrir les enveloppes.)



Benjamin Lantz, Taylorville, Illinois, U.S.A., 2rd February, 1898; 6 years. (Filed 23rd December, 1897.)

Claim. 1st. As an article of manufacture, an envelope opener consisting of a body portion having a bifurcated end, a blade secured to an end of one of the side portions so as to be substantially on a plane with the end of the opposite side portion. 2nd. An envelope opener comprising a tubular body portion one end thereof being slit, a segmental blade secured to one end of one of the side portions of