ing har substantially as and for the purpose set forth. 2nd. In a lock, a series of reversible tumblers, having one end journaled in a frame, and the other end with a notch at one side, the centre of fits end face, said tumblers adapted to be rocked to bring the notches in adjanuant to receive an oscillating bar, substantially analysis frame or bracket having a cross bar or floor therein, of a series of rocking tumblers journalled at one end in the frame, the other end resting on its floor, said tumblers having notches in one end adapted to register and rofth. 4th. In a lock frame, a series of rocking tumblers journalled at one end therein, the other end having a notch at one side, the centre of the space with one inwardly inclined wail part, of the tumblers arranged on the journal with the notches believe the property of the space with one inwardly inclined wail part, of the tumblers arranged on the journal with the notches above the centre, and to receive an oscillating bar in sait notches above the centre, and to receive an oscillating bar in sait notches and seed tumblers, on the same plane with the straight walls of the notches, of the stationary tumblers arranged with notches above the centre, and to receive and open soluted end plate extending from one end of the securing plate, having an arm at right angles thereto, and a closed slotted end plate on the other end of the securing plate, the plate of the securing plate, having an arm at right angles thereto, and a closed slotted end plate on the other end of the securing plate, and the plate of the securing plate, having an arm at right angles thereto, and a closed slotted end plate on the other end of the securing plate, and the plate of the securing plate, having an arm at right angles thereto, and a closed slotted end plate on the other end of the securing plate, and the plate of the securing plate the plate of the securing pl

No. 35,206. Medicinal Compound.

(Composition médicale.)

Daniel Whalen, Fort William West, Ontario, Canada, 13th October, 1890; 5 years.

Claim.—A compound, composed of the ingredients aforesaid, mixed together, substantially in the manner and proportions aforesaid, and for the purposes set forth.

No. 35,207. Metal Cutter.

(Appareil pour couper le métal.)

William Smith, (assignee of Albert Corry Irvine), Boston, Massachusetts, U.S.A., 13th October, 1890; 5 years.

chusetts, U.S.A., 13th October, 1890; a years.

Claim.—1st. The combination and arrangement of the standardplate, the lever, and the lower blade bar, with the upper blade bar
divided into two arms at its left hand end, said arms passing respectively on each side of a projection from the lower blade bar, and
the standard-plate, all constructed and arranged, substantially as
shown and described. 2nd. The combination and arrangement of
the two blade bars with their respective blades and the standard or
supporting plate, and the working lever provided with segmental
gear carrying round-top cogs, and the corresponding segmental gear
on the lower blade bar, all constructed and arranged substantially
as shown and described. as shown and described.

No. 35,208. Method and Apparatus for Sizing and Separating Ores, etc. (Mode et appareil pour assortir et séparer les minerais, etc.)

Richard Stanfield, Edinburgh, Scotland, and Thomas Clarkson, London, England, 15th October, 1890; 5 years.

Richard Stanfield, Edinburgh, Scotland, and Thomas Clarkson, London, England, 15th October, 1890; 5 years.

Claim.—1st. The hereinbefore described method of separating metals, minerals and other dense bodies from their ores, or associated materials, or of classifying materials according to size, consisting in the use of a rapidly rotated vessel, having apertures in its periphery, substantially as set forth. 2nd. The method of separating gold or silver from ores, consisting in first adding to the pulverized materials a heavy substance such as mercury, and then subjecting the whole to the action of a rapidly rotated vessel with apertures in its periphery, whereby separation will be assisted, as set forth. 3rd. The use for the purposes specified, of a centrifugal machine provided with a rotary vessel such as A, for the reception of pulverized material, with one or more rows of specially constructed apertures or tubular arms around its periphery for the ejection thereof, and operated, substantially as hereinabove set forth. 4th. In a centrifugal machine for the purposes hereinbefore specified, a vessel A, made in two parts the upper part a', detachably fitted to the lower part a', which forms the head of a rotating spindle B, to facilitate the attachment of duplicate vessels suitable for the particular material to be operated upon, and having apertures a, a, constructed and arranged, substantially as hereinbefore described. 5th. In a centrifugal machine, for the purposes hereinbefore specified, the combination, with a rotary vessel A, provided with apertures a, and rotated by a shaft B, of an enclosing cover J, having arms O, carrying brushes P, all arranged and operated, substantially as and for the purposes hereinbefore specified, and shown in the accompanying drawings. 6th. The combination, with a centrifugal machine, constructed substantially in the manner specified, of a receiver such as Q, having any convenient number of concentric receiving compartments disposed, constructed, and arranged and shown in the ac

No. 35,209. Car Wheel. (Roue de char.)

James Rigby, Minneapolis, Minnesota, U.S.A., 15th October, 1890; 5 years.

5 years.

Claim.—1st. In combination, with a car wheel body, a tire formed with annular ledges upon its inner periphery, and near its outer and inner faces for receiving the body, and having a continuous or uncut annular flange projecting from its inner face, and adapted to be hammered down over the body for holding it in place, as described.

2nd. In a car wheel, the tire formed with annular steps or ledges on its inner periphery, and having grooves cut in such ledges, and with a continuous or uncut annular flange projecting from its face, in combination, with the body, having a smooth-faced flange hand provided with annular projecting beads a. f. adapted to fit in the grooves of the tire and interlock, said flange of the tire being adapted to be hammered down all around over the body to hold it in place substantially as described. 3rd. The method of securing together the body and tire of a car wheel, which consists, in placing the body within the tire, and forcing it against a flunge or ledge projecting inward from the inner periphery at or near one face, heating a flunge on the other face of the tire to the working temperature, and, after the body is in position, turning such flange inward and hammering