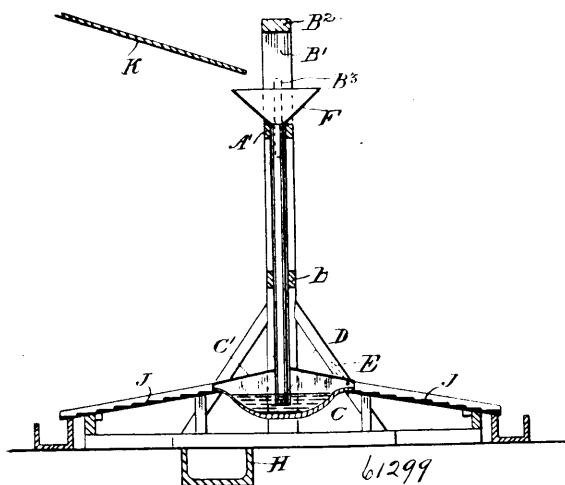


of said shanks, and the attachment for the day of the month having a single square shank adapted to hold it from turning when fitted through the square opening, substantially as herein set forth.

**No. 61,299. Amalgamating Apparatus.**

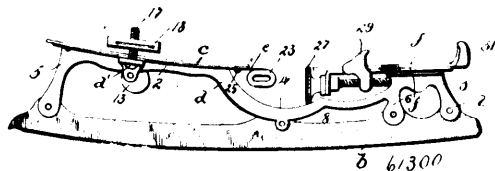
(Appareil à amalgamer.)



Henry Spencer Cope, Melbourne, Victoria, Australia, 5th October, 1898; 6 years. (Filed 18th March, 1898.)

**Claim.**—1st. In amalgamating apparatus, in combination pipes or passages as A, hopper as F, mercury containing receptacle as C, and means for adjusting the depth of piping in the mercury substantially as and for the purposes set forth. 2nd. In amalgamating apparatus, in combination a number of pipes as A, carrying hopper as F, said pipes having flanged bottoms, and set upon a sliding frame, pivoted mercury containing dish as C, and means for raising and lowering the said pipes in the mercury, substantially as and for the purposes set forth. 3rd. In amalgamating apparatus, the alternate arrangement consisting of the combination of pipe as A, mercury containing receptacle as C, adjustable pipe as A', and means for securing a sealed joint between the said pipes, substantially as and for the purposes set forth. 4th. In amalgamating apparatus, the combination of pipes with flanged bottom end A', secured in sliding plates A', with tongues arranged to move in slots B', the guide plates B, secured to standards B', the hoppers F, into which auriferous material and water is fed, the screw rod G, the box G', on cross plate G', the plate B', through which the rod passes, and the hand wheel G', the dish C, with cover C', pivoted to standards B', by pins D, and spring catch E, the ripple table J, and the gutter H, substantially as specified.

**No. 61,300. Skate. (Patin.)**

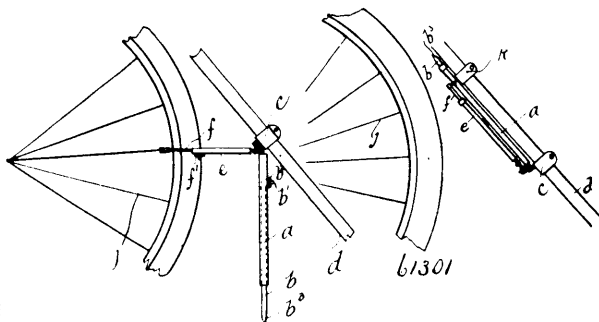


Flavie M. Rodier, Montreal, Quebec, Canada, 5th October, 1898. 6 years. (Filed 4th May, 1898.)

**Claim.** 1st. A skate provided with clamping-jaws adapted to overlap the opposite edges of a shoe-sole, each of which jaws is supported between its ends upon a vertically-disposed pivot and is thereby rendered capable of a rocking movement in a horizontal plane, and having means for adjusting said jaws both vertically and horizontally, substantially as set forth. 2nd. In a skate, the combination with a sole-plate, of a locking-lever pivotally connected to said plate, two clamping-jaws for engaging the sides of a shoe-sole, one of which is mounted upon said sole-plate and the other upon said lever, and means substantially as described for securing horizontal adjustment of said jaws upon their supports, substantially as and for the purpose set forth. 3rd. In a skate, the combination with the sole-plate, of a locking lever pivoted at its front end to the under side of said plate and provided at its rear end with means for making a locking engagement with said plate, two clamping-jaws mounted upon said sole plate and lever respectively each of

which is adapted to overlap the edge of a shoe-sole and is capable of a rocking movement in a horizontal plane, and means for securing an independent adjustment of said jaws to vary the distance between them, substantially as set forth. 4th. In a skate, the combination with a sole plate having a depending lug formed by stamping out and bending downwardly and inwardly a portion of the body of said plate, a locking-lever pivotally connected at its front end to said plate and provided near its rear end with an opening to receive said lug, and two side clamps for a shoe-sole, one of which is mounted upon said sole-plate and the other upon said lever, substantially as set forth. 5th. In a skate, the combination with a sole-plate, of a latterly-swinging locking-lever pivotally connected thereto, two clamping-jaws adapted to overlap the side edges of a shoe-sole, one of which is mounted upon said plate and the other upon said lever, means for independently adjusting said jaws both laterally and vertically upon their supports, and suitable heel-clamping devices for engaging a shoe-heel, substantially as set forth. 6th. In a skate, the combination with a sole-plate, of a locking lever pivotally connected thereto, two sliding plates mounted upon the undersides of said sole-plate and lever respectively, each of which carries at its outer end a vertically-disposed post, means, as adjusting-screws, for governing the lateral position of said plates, and two clamping-jaws mounted upon said posts respectively, in such manner as to be capable of a rocking movement in a horizontal plane, substantially as set forth. 7th. The combination with the sole-plate and the locking-lever pivotally connected thereto, of the adjustable side clamps mounted upon said plate and lever respectively, heel-clamping means comprising a stationary claw and a movable plate carrying spurs adapted to co-operate with said claw to clamp a shoe-heel between them, and an intermediate connection between said movable plate and said locking-lever substantially as described, whereby the side clamps and heel-clamps will be operated simultaneously by the movement of said lever. 8th. The combination with a sole-plate, as c, locking-lever, as e, the side clamps, as d, d', carried by said plate and lever respectively, of an adjustable, heel-engaging claw, as 29, a spur-carrying plate, as f', adapted for movement toward and away from said sole-plate, and a rigid connection, as the tie-strip g, between said plate and said locking-lever, substantially as and for the purpose set forth. 9th. The combination with the heel-pedestal 3, of the plate f mounted upon said pedestal and having a forwardly-projecting stem, plate f' guided for longitudinal movement upon the plate f and having a projecting stem which overlies the stem of the latter, claw 29 movably mounted upon the stems of said plates, and adjusting-screw 27 revolvably supported upon the stem of said plate f and entering a tapped hole in said claw, substantially as described. 10th. The combination with the plates 14 carrying the threaded posts 17, and the adjusting-screws 13 operatively connected therewith, of the clamping-jaws 18 provided with a tapped hole to receive said posts, substantially as and for the purpose described. 11th. The combination with the threaded posts 17, of the clamping-jaws 18 having a tapped hole to receive said posts and provided with a slit extending longitudinally thereof upon opposite sides of said hole, substantially as and for the purpose described. 12th. The combination with the base-plate 10 having the flange 12 and provided with the opening 20, of the plate 14 guided for movement upon said base-plate and having the flange 16, screw 13 having the groove 19 in the shank thereof, whereby it is adapted to be inserted and revolvably held within said flange 12, said screw entering a tapped hole in the flange 16, and the clamping-jaw 18 carried by said plate 14, substantially as described.

**No. 61,301. Supporting and Locking Device for Cycles.**  
(Appareil pour supporter et fermer à clé les bicycles.)



Arthur Malden, Uckfield, Sussex, England, 5th October, 1898; 6 years. (Filed 6th June, 1898.)

**Claim.**—In a device for supporting and locking a cycle, such device comprising joined tubes in which slide telescopically, rods, the struck up ends of said rods projecting through slots in the tubes and having screw threads on their peripheries on which work thumb nuts, in combination with a partially screw threaded pin on one of the clips, on which pin is loosely fitted one of said tubes, while a collar having an eye at an angle thereto is screwed upon the lower part of said pin, and held in place by a lock-nut, the shorter tubes being