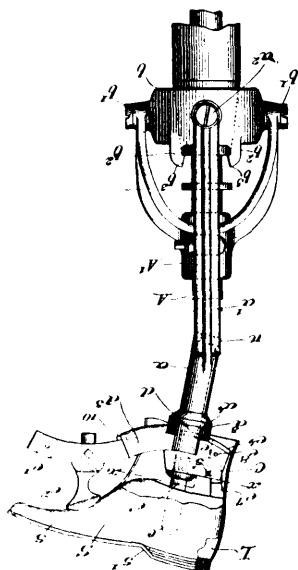


of 75 parts of pipe clay, 5 parts of asbestos, 10 parts of oxide of magnesium, 5 parts of calcium hydrate and 5 parts of zirconium, and suitably held in position within an annular lamp flame, substantially as specified.

No. 60,770. Support for Boots or Shoes.

(*Support pour chaussures.*)



60770

The McKay Shoe Machinery Company, Boston, Massachusetts, assignee of Louis Amédée Casgrain, Winchester, Massachusetts, U.S.A., 3rd August, 1898; 6 years. (Filed 11th July, 1898.)

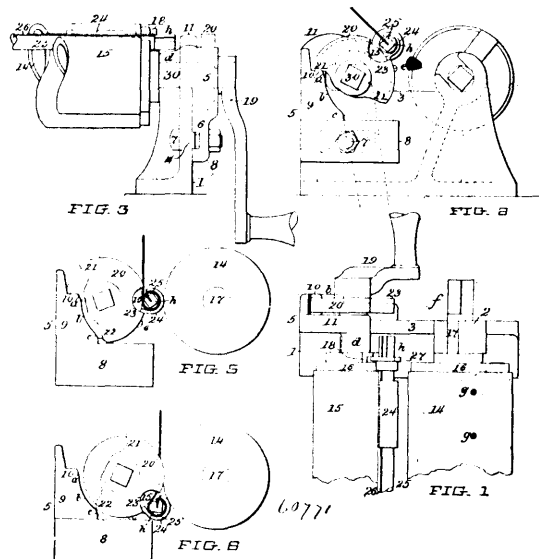
Claim.—1st. A work-support for boots and shoes, consisting of a standard, a last-holder mounted to rotate thereon and adapted to be tipped in the direction of the length of the last, and means to normally prevent the last holder from tipping, while permitting it to be tipped when rotated to a predetermined point, substantially as described. 2nd. A work-support for boots and shoes, consisting of a standard, a last-holder mounted thereon to turn in a lateral plane and adapted to be tipped at times in the direction of the length of the last, and means to permit the holder to be tipped at a predetermined point, and to automatically lock it thereat from lateral movement, substantially as described. 3rd. A work-support for boot and shoes consisting of a standard, a last-holder mounted to turn laterally thereon, and adapted to be tipped in the direction of the length of the last, means to permit the last holder to be tipped at a predetermined point, and a stop to limit the extent of tipping movement of the last holder, substantially as described. 4th. A work-support for boots and shoes consisting of a standard forked at its lower end, a sustaining member upon which said forked end is pivoted, stops to limit the rocking movement of the standard thereon, a last holder mounted to turn laterally on the standard, and adapted to be tipped in the direction of the length of the last, and means to normally prevent the last support from tipping, substantially as described. 5th. A work-support for boots and shoes consisting of a standard, a circular bearing thereon having an opening in its side, and a last holder mounted to turn laterally upon the standard and engaging said bearing, rotation of said holder to bring its engaging portion opposite the opening of the bearing permitting the holder to be tipped in the direction of its length, substantially as described. 6th. A work-support for boots or shoes consisting of a standard, a rotatable and tipping last holder thereon provided with a fixed last pin and a movable heel support pivotally mounted on the holder, controlled as to its position by the counter of the boot or shoe, substantially as described. 7th. A work-support for boots or shoes consisting of a standard, a rotatable and tipping last holder thereon provided with a fixed last pin, and a spring-controlled heel support pivotally mounted on the holder, positioned by the counter of the boot or shoe, substantially as described.

No. 60,771. Gutter Former. (*Machine à gouttière*)

Denis J. Whelan, Troy, assignee of Hugh Augustine Riley, Hoosick Falls, both in New York, U.S.A., 3rd August, 1898; 6 years. (Filed 15th July, 1898.)

Claim.—1st. The combination in a gutter former with a presser roller carried in fixed bearings and a forming roller carrying a bead-forming mandrel, of elongated bearings for the forming roller in which its journals can both turn and slide towards and away from

the presser roller and means for forcing and holding the forming roller to its duty in connection with the presser roller in the bending



of a plate. 2nd. In a gutter former the combination with the presser roller carried in fixed bearings open at one side to permit removal of the roller therefrom, and a forming roller carrying a bead-forming mandrel, elongated bearings for the forming roller in which its journals can both turn and slide towards and away from the presser roller and means for forcing and holding the forming roller to its duty in connection with the presser roller in bending a plate to form a gutter. 3rd. In a gutter former the combination with a presser roller carried in fixed bearings and a forming roller carrying a bead-forming mandrel, of elongated bearings for the forming roller open towards the presser roller to permit ready removal of the forming roller therefrom and in which its journals can both turn and slide towards and away from the presser roller, and means for forcing and holding the forming roller to its duty in connection with the presser roller in the bending of a plate to form a gutter. 4th. The combination with the beading mandrel mounted on the forming roller of the forming roller and means connected therewith for preventing its rotation and resisting the tendency of the mandrel cranks to turn in the same direction as the mandrel turns in the process of rolling up a bead. 5th. The combination with the stands and journal brackets having the elongated bearings, of the forming roller carrying the beading mandrel, the crank can having the shoulder and the ledge on the bracket which co-operates therewith. 6th. The combination of a stand which forms the lower member of an elongated journal bearing, with an adjustable bracket having an arm which overhangs said lower member and forms the upper member of said bearing. 7th. In a gutter former, the combination with two co-operative bending rollers, of a pair of detachable cranks adapted to fit either roller, and bearings in which said rollers rest in operation, all of which bearings open in a direction opposed to the line of thrust in bending a plate, as a means of promoting interchange or transposition of the rollers. 8th. The combination with a forming roller, of a pair of bearing rollers carried in an oscillatory frame which is hung in a swinging stirrup pivoted to a stand upon which is pivoted a brake lever which carries a roller that is adapted by the movement of the brake lever to be brought to bear against one or both of the bearing rollers to crowd them against the forming roller or against any material carried by or being formed thereon. 9th. The combination with the forming roller and beading mandrel carried thereon, of a pair of bearing rollers carried in an oscillatory frame which is hung in a swinging stirrup pivoted to a stand upon which is pivoted a brake lever which carries a roller that is adapted by a movement of the handle of the brake lever to be brought to bear against one or both of the bearing rollers to crowd them against the forming roller, or against any material carried by or being formed thereon. 10th. The combination with the bracket stand and brake lever of the pivoted stirrup carrying the oscillatory roller frame and bearing rollers and having a rearward extension which projects into the path of the brake handle when it drops for the purpose of throwing the bearing rollers out of their normal field of duty. 11th. In a gutter former, the combination with a pair of forming rollers one of which carries a beading mandrel, of a transversely adjustable brake bracket upon which is hung a swinging stirrup that carries an oscillatory frame in which are pivoted two rollers adapted to bear against one of the forming rollers or against any material being formed thereon, and a brake lever carrying a roller that is adapted to bear against one or both of the stirrup rollers. 12th. As a provision for maintaining continuous contact and pressure against a