links pivoted together and to the hanging and steadying links, and means to operate said gearing to collapse and expand said bellows, substantially as set forth. 11th. In a forge having a bellows provided with a movable head, the means for operating said bellows comprising hanging links supported from a stationary pivot, steadying links pivoted to said head with a space between the pivots, cross links pivoted together centrally and to the ends of opposite hanging and steadying links, and means to operate said links from said central pivot, substantially as set forth.

No. 65,186. Moistener. (Humecteur.)



David Anderson, Springhill, Nova Scotia, Canada, 2nd December, 1899; 6 years. (Filed 6th February, 1899.)

Claim.—1st. In a moistener, the combination of an open tray consisting of a plate and low rim, a moisture carrying pad secured upon said tray having its outer edge encircled by the rim, and a fastener or holder at the bottom or back of said tray, substantially as set forth. 2nd. In a moistener, the combination of a rimmed rubber tray, a sponge secured upon said tray and having its outer edge encircled by the rim, a rubber loop secured to the back of said tray and adapted to hold it upon a finger, substantially as set forth. 3rd. A moistener, consisting of a flat tray adapted to hold and being provided with a moisture carrying pad confined within its edges, and having a fastener or holder at the bottom or back by means of which it may be held on a finger or the wrist, substantially as set forth.

No. 65,187. Saw Patching Process.

(Procédé pour reparer les scies.)



Michael Daniel Ahearn, Green Bay, Wisconsin, U.S.A., 2nd December, 1899; 6 years. (Filed 11th November, 1898.)

Claim. – The metal of repairing fractures in metal plates, consisting in cutting away the metal of the plate on one side of the same directly across the line of fracture to form a lateral recess and reduce the edges of the fracture to feather's edge, then inlaying and brazing a corresponding splice piece within this recess and across the fracture, substantially as and for the purpose described.

No. 65,188. Motor Controlling Apparatus. (Appareil à contrôler les moteurs.)

Clinton Edgar Woods, Chicago, Illinois, U.S.A., 2nd December, 1899; 6years. (Filed 7th September, 1898.)

Claim.--Ist. The combination with a controller for varying the a predetermined range of movement, the lever in its continu condition of a circuit including a motor, of a brake for engaging and movement serving to apply the brake, substantially as described.

checking the motor of a portion driven by said motor, operating mechanism for actuating the brake and controller said controller



being adapted to open or render ineffective the circuit through said motor, said operating mechanism being adapted, after having actumotor, said operating mechanism being adapted, after having actu-ated the controller to open or render ineffective the circuit through said motor, to disengage itself from the controller and in its further operation, to a₁-ply the brake, and means for locking the controller in the position it occupies when the motor circuit is opened or rendered ineffective thereby, substantially as described. 2nd. The combination with a rotating member of a controller, of a pinion mounted thereon, an operating lever, an actuating gear connected therewith and adapted through a portion of its range of movement to actuate said member to effect the required changes in circuit conditions, and braking mechanism also operated by said lever, said actuating gear during the remainder of its movement being adapted actuating gear during the remainder of its movement being adapted to be operatively disengaged from said pinion, the operating lever in moving the actuating gear through the remainder of its range being adapted to operate the braking mechanism, substantially as described. 3rd. The combination with a rotating member of a controller, of a pinion mounted thereon, an operating lever, an actuating gear connected therewith and adapted throughout a por-tion of its range of movement to actuate said member to effect the required changes in circuit conditions, braking mechanism also operated by said lever, said actuating gear during the remainder of its movement heing adapted to be operatively disengaged from said its movement being adapted to be operatively disengaged from said is inversion of the operating lever in moving the actuating gear through the remainder of its range being adapted to operate the braking mechanism, a lug fixedly mounted with relation to the rotatable member, and a shoe fixedly mounted with relation to the actuating gear adapted to engage the lug during the operation of the mechan-ism, substantially as described. 4th. The combination with the pivotally mounted swing lever p, of the segmental gear portion o, percently indicated by the lever, a pinion or gear portion h^2 , operatively con-nected with the controller of a motor and rotated by the gear o, as the latter is moved through a portion of its range of movement and a brake adapted to engage a motor driven portion also operated by a brake adapted to engage a motor driven portion also operated by said lever upon its continued move, substantially as described. 5th. The combination with the pivotally mounted swinging lever p, of the segmental gear portion o, carried by the lever, a pinion h^2 for operating a motor controller, said pinion and gear having separable engagement, and a brake, cable or chain r, connected between the lever and a brake, the said pinion and gear portion being separated upon the application of the brake, substantially as described. 6th. The combination with a swinging lever p, of a motor controller, a multiplying gear, all of whose members are rotatable, interposed between said coutoller and lever for increasing the suced of the between said controller and lever for increasing the speed of the controller relative to the speed of the actuating lever, and a break controller relative to the speed of the actuating lever, and a break adapted to engage a notor driven portion also operated by said actuating lever, substantially as describep. 7th. The combination with a swinging lever p, of a motor controller, a multiplying gear, all of whose members are rotatable, interposed between said controller and lever for increasing the speed of the controller relative to the speed of the actuating lever, and a brake adapted to engage a motor driven portion also operated by said lever, said lever serving to adjust the multiplying gear to relieve the controller of the actuating influence thereof, when the lever has been shifted through a predetermined range of movement, the lever in its continued