

walls of the interior passage being arranged to fit the sides of the nozzle closely, to prevent the entrance of air and an air-vent provided through the cap below the nozzle, as set forth. 30th. In a fountain-pen, the ink-conducting shaft arranged above the pen, and adapted to leave a space or chamber between it, and the pen in which chamber the ink accumulates and is drawn down upon the nibs as required, as set forth.

No. 23,361. Hood or Cap for Piles.

(Couronne de Piles.)

William T. Casgrain, Milwaukee, Wis., U. S., 6th February, 1886; 5 years.

Claim.—1st. A hood or cap for piles, consisting of a metallic casting, having a recessed lower portion, and end grooves bevelled at their tops, substantially as and for the purpose set forth. 2nd. A hood or cap for piles, consisting of a metallic casting having recessed upper and lower portions, and end grooves bevelled at their top, substantially as and for the purpose specified. 3rd. A hood or cap for piles, consisting of a metallic casting having bevelled recesses in its upper and lower portions, and bevelled grooves at its ends, substantially as set forth. 4th. A hood or cap for piles, consisting of a metallic casting, having bevelled recesses in its upper and lower portions, bevelled grooves at its ends, and perforations in its sides at an angle to its horizontal plane, substantially as set forth. 5th. A hood or cap for piles, consisting of a metallic casting having recesses in its upper and lower portions, grooves at its ends and perforations in its sides, in combination with a short timber or cushion designed to fit the upper recessed portion of said hood or cap, and means, substantially as described, for connecting the latter with the monkey or rammer of a pile-driver, substantially as set forth.

No. 23,362. Whip Core. (Manche de Fouet.)

Henry Mullen and James Noble, Jr., Westfield, Mass., U. S., 6th February, 1886; 5 years.

Claim.—An improved compound whip-core, substantially as described, composed of a whalebone raw-hide and a suitable cement for the latter, the bone constituting the centre of the core and the raw-hide the covering thereof, said covering being cemented upon and wrapped around said bone, the outer edge thereof being lapped and cemented upon the covering, substantially as set forth.

No. 23,363. Automatic Regulator of Clocks and Apparatus Therefor. (Manière de régler les Horloges et Appareil pour cet objet.)

John B. Everall, Montreal, Que., 6th February, 1886; 5 years.

Claim.—1st. The art of regulating clocks from a standard, by sending from a disc mounted on the arbor of such standard clock at regular intervals, electrical impulses to an electro-magnet in connection with each clock to be regulated, such electro-magnet acting through suitable means to move the minute hand in either direction and make it correspond with that of standard, all substantially as herein described. 2nd. The combination, in a standard clock, of suitable battery and connections, a disc mounted on the arbor and having recess in its periphery, and a pivoted lever acting when its point falls into such recess to transmit electrical impulses, as and for the purposes set forth. 3rd. The combination, in a clock to be regulated, of notched discs mounted on the canon pinion, and an electro-magnet operating a lever held normally out of contact with such discs, all as and for the purposes set forth.

No. 23,364. Machine for Purifying Middlings. (Machine à Epurer les Gruaux.)

Alfred E. Ensign, Embro, Ont., 6th February, 1886; 5 years.

Claim.—1st. The combination of the driving shafts K, K, and the rotating cylinder Z, substantially as and for the purpose hereinbefore set forth. 2nd. The combination of the rotary cylinder Z, the air spaces R, R, the air chambers U, O, O, and the air passages V, V, V, substantially as and for the purpose hereinbefore set forth.

No. 23,365. Patten. (Socque.)

Harold H. Hall, Lynn, Mass., U. S., 5th February, 1886; 5 years.

Claim.—1st. In a patten, the body A provided with the frame-work H, R, straps D, E, heel-piece B, toe-pieces C and suitable adjustable calks, substantially as described. 2nd. In a patten, the screw-calks k provided with means for locking said calks in any desired position, substantially as set forth. 3rd. In a patten, the frame-work H provided with the bar J, screw-calks k, locking-bar N and screw t, in combination with the body A and straps or means for securing the patten to the foot of the wearer, substantially as described. 4th. In a patten, the frame-work k provided with the bar J, screw-calks k, bar N and screw t, in combination with the body A, and straps or means for securing the patten to the foot of the wearer, substantially as set forth. 5th. In a patten, the bar N provided with the flanges r and screw t for securing the screws k in any desired position in the bar J, substantially as described. 6th. In a patten, the combination of the body straps or means for securing the patten to the foot of the wearer, suitable heel and toe pieces, a frame-work secured to the under side of the heel portion of the body adjustable calks, and suitable means for locking or securing the calks in any desired position, substantially as set forth.

No. 23,366. Fire Screen and Ventilator Combined. (Ecran et Ventilateur Combinés.)

Albert E. French, East Tawas, Mich., U. S., 5th February, 1886; 5 years.

Claim.—The combination in a combined screen and ventilator, etc., of the case or body composed of a screen portion A, sides A' and rear

A'', the parts being contracted toward their mouth, a pipe section B connecting with said contracted portion and having an elbow B', a damper C and connecting with stove-pipe, substantially as shown and described.

No. 23,367. Planer Knife Grinder.

(Remouleur de Burin de Raboteuse.)

George H. Mills, Concord, N.H., U. S., 5th February, 1886; 5 years.

Claim.—In a device for holding planer knives while grinding, the combination of a knife rest having a T-groove running longitudinally in its lower face adapted to receive the heads of bolts for clamping, a knife thereon, suitable lugs carrying adjusting screws adapted to bear against the back edge of a knife, arms projecting from its lower edge, near either end thereof, and a rod upon which the outer ends of said arms are mounted and rendered capable of reciprocal and rotative motion by the hand of an operator, with a suitable bed-plate having elevated bearings in which said rod is mounted, and mechanism, substantially as described, for adjusting the height of said knife-rest relative to the axis of a grindstone, consisting of a curvilinear arm projecting from the lower edge of said knife-rest about midway from either end thereof toward a grindstone, and carrying a screw resting upon a suitable slide-rest adapted to move upon a finished raised surface, provided for the purpose upon said bed-plate, whereby said knife-rest may be supported at an angle of about forty-five degrees, as and for the purpose set forth.

No. 23,368. Syringe. (Seringue.)

Benjamin F. Sutton, Brooklyn, N. Y., U. S., 8th February, 1886; 5 years.

Claim.—1st. A syringe, having a self-collapsible or self-contracting discharge tube, substantially as herein described. 2nd. A syringe tube of such corrugated or flattened form in its normal condition, as to be capable of having its calibre enlarged by the separation and spreading apart of its folded or corrugated parts, when pressure is applied to liquid within it, and which is capable of self-collapse when relieved of material pressure, substantially as herein described. 3rd. The combination, in a syringe, of a hollow bulb, a self-collapsible discharge tube, and an interposed eduction valve, substantially as herein described. 4th. The combination with a self-collapsible syringe tube, of a spirally wound thread contained therein, substantially as herein described. 5th. The combination, with a nozzle N having a plain inner end, of an elastic discharge tube socket, containing a metal ring n, substantially as and for the purpose herein set forth. 6th. The combination, with the suction tube of a syringe, of a sinker inclosed and protected, substantially as herein described.

No. 23,369. Heating Stove. (Poêle de Chauffage.)

John Milno, Hamilton, Ont., 8th February, 1886; 5 years.

Claim.—1st. In a self-feeder heating stove, the cold air ducts F, in connection with the flumes D, feed pot C and hot air chamber B, as described. 2nd. The circular damper J and pipe L, in connection with the hot air chamber B, ducts F, flume D and feed pot C, as set forth. 3rd. The gas pipe M and ducts N, in connection with the cylinder A and stove pipe Q, as described, and all operating substantially as and for the purposes herein described.

No. 23,370. Telephone Transmitter.

(Transmetteur Téléphonique.)

Henry E. Waite, New York, N.Y., U. S., 8th February, 1886; 5 years.

Claim.—1st. A telephone transmitter, consisting of a case having a front perforated plate provided with a recess or ledge, a diaphragm supported in said recess, a spring-finger secured to said plate and holding the diaphragm in position, and bearing upon its free end one of the electrodes, and an adjustable spring also secured to the plate and supporting the other electrode in contact with the first, substantially as described. 2nd. The combination, with a recessed plate, of a diaphragm in said recess and a spring-finger secured to said plate, one face of its free end bearing upon and supporting and damping the diaphragm, and the other face carrying an electrode, substantially as described. 3rd. The combination, with the case of a telephone transmitter, of the sound board B, the retaining spring C provided with the carbon button c electro-plated upon one side and soldered to the free end of said spring C, the spring D provided at its free end with a point or spur d resting in contact with the button c, and means for adjusting the pressure of said point on said button, all substantially as described. 4th. The combination, with the case, of a diaphragm, to the edges of which are secured the spring damping finger, carrying one electrode, and the adjustable spring, carrying the other electrode, substantially as described.

No. 23,371. Car-Coupler. (Attelage de Chars.)

Sanders F. McCallister, San Marcos, Texas, U. S., 8th February, 1886; 5 years.

Claim.—1st. The combination, of the draw-head, having therein a trip-bar, and rearwardly a spiral spring, the said trip-bar C so disposed as to be projected forward by the action of the said spring, sufficiently to hold the pin out of the draw-bar with the said pin a-J link and the spring I, substantially as herein set forth. 2nd. The combination of the draw-bar A, the opening B, the trip-bar C, the spiral spring D, the pin F and the system of levers F' to operate the pin and spring I, the whole arranged as and for the purposes substantially as herein set forth.

No. 23,372. Railway. (Chemin de Fer.)

John T. Campbell, Mason City, Ill., U. S., 8th February, 1886; 5 years.

Claim.—1st. The combination of the sleepers, having the vertically depending flanges B on their under faces at the sides, and the rec-