No. 18,382. Mitering Machine.

(Machine à onglet.)

John B. Young, Toronto, Ont., 3rd January, 1884; 5years.

John B. Young, Toronto, Ont., 3rd January, 1834; 5years. Claim.—1st. In a mitering machine, the combination of the frame A provided with ribs d, and the socket lever bar B provided with one or more sockets for levers m, and a knife C attached to the socket lever bar B, all arranged substantially as and for the purpose specified. 2nd. In a mitering machine, pivoting the socket lever bar B at the point u, and the lower inner vertical surface n of the part a of the frame A, also the stops o, o on said frame, to prevent too much play of the knife, substantially as and for the purpose specified. 3rd. In combination with the frome plate A, of the adjustable guage D, substantially as and for the purpose specified. 4th. The combination of the frame A, adjustable guage D, socket lever plate B, levers m, substantially as and for the purpose specified.

Expansive Rubber Bucket for Chain Pump. (Godet en caoutchouc expansible de pompe à chapelet.) No. 18,383.

Charles H. Miller, Columbus, Ohio, U.S., 3rd January, 1894; 5 years. Claim.-1st. The combination of the screw-threaded stem a made Claim.—1st. The combination of the screw-threaded stem a made elliptical in cross-section, with the cone B and the cap C having a cavity in its under side, substantially as shown and described. 2nd. In an expansive bucket for chain-pumps, the screw-threaded link or stem a made elliptical in cross-section between the threads, substantially as shown and described. 3rd. In an expansive bucket for chain pumps, the conical elastic or yielding nut B, having a central bore adapted to fit the elliptic stem of the connecting link a, substantially as shown and described.

No. 18,384. Safety Hook. (Crochet de sûreté.)

Edward H. Smith, Rutherford, Cal., U.S., 3rd January, 1833: 5 years. Edward H. Smith, Kuthertord, Chi., U.S., ord bindary, 1833; b years. Claim.—1st. The hook C having a stolled shank A, and the closing supplemental short arm F fitted to enter a socket in the hook, and having its opposite end provided with a T-shaped head to slide in the slot in the shank, substantially as herein described. 2nd. A safety-hook consisting of a longitudinal slotted shank A and a curved hook portion C pertorated at its outer end, to receive the point of the supplemental short-arm F. the rear end of which is provided with a T-shaped head, to fit the slot in the shank, in combination with a spring acting against the rear of the part F, substantially as herein described acting against the rear of the part F, substantially as herein described.

No. 18,385. Hot Air Flue for Heating Stoves and Furnaces. (Tuyau à air chaud des caloriferes.)

James A. Watrous, Green Spring, Ohio, U.S., 3rd January, 1883; 5 years.

years. Claim.—1st. The combination, with the stove A, of the hot-air flue comprising the sections D. D1 and D2 arranged as described, the latter having the dampers d1, substantially as shown and described. 2nd. The combination of the back plate having the damper C_3 and exits C, Ct, the sections D and D2 having the exit-openings communicating with the exit C, C1, and the section D1 having the dampers d1, substantially as shown and described.

No. 18,386. Lamp Case. (Lampe.)

Edward S. Piper, Toronto, Ont., 9th January, 1884; 5 years.

Claim.—A screwed flange A, formed around the aperture in the top of a lamp-case, and arranged to receive the screwed top B, in combination with a detachable cone-shaped draft protector C, arranged substantially as and for the purpose specified.

No. 18,387. Hernial Truss. (Bandage herniaire.)

Alva S. Armstrong, (Assignee of James L. Armstrong,) Ottawa, Ont., 10th Junuary, 1884; 5 years.

Chaim.—1st. The spring truss frame A bent to conform (when placed horizontally) to the body of the wearer, and maintained by tension of the posterior ends provided with disks B, Bi, said frame carrying the anterior sliding spring pad E. adjustable to be in contact with an hernia for its reduction, as set forth. 2nd. The truss pad E, supported on a coiled spring K placed within the concavity of the pad,

No. 18,388. Baby Jumper. (Escarpolette.)

Charles T. Gardner, Napanee, Ont., 10th January, 1884; 5 years.

Claim.—1st. In a baby jumper, the zigzag spring H provided with hook L for suspending it, suspending adjuster rope F and hook K1, as shown and described for the purpose set forth. 2nd. In a caby jumper, the suspended adjuster F, frame B having back rest N, suspended cushion C, regulating slits C and fastening strap O, the whole as described and for the purposes set forth.

No. 18,389. Boat. (Bateau.)

Henry F. Coombs, Charlottetown. P.E.I., 10th January, 1884; 5 years.

years.

Claim,—1st. The combination, in a boat, of the rods, ropes or pipes C fitted to a boat, below or at the water line, as shown and described, and for the purposes set forth. 2nd. A rowlock having the oar bed M, the base flange H, the fastener I and the chain K, combined and arranged and for the purposes set forth. 3rd. The combination, in a boat, of the rubber or other air tight bags B and B; fitted with screw caps and partially filled with cork, and inflated with air, the tubes G and D filled as described and attached to the boat, inside the gauwale, and for the purposes set forth and described. 4th. The combination, in a boat, of the bread and water vessels El, E2, provided with tap P, screw covers R and R2, and fastenings F and sliding belt L, the whole arranged as shown and described for the purposes set forth.

No. 18,390. Animal Shears. (Forces.)

Lorenzo D. Gleason and Robert A. Holt, Lebanon, Mo., U.S., 10th January, 1884; 5 years.

Claim.—1st. The shear-blade C having the extension or attachment Cr, as and for the purpose set forth. 2nd. The combination of the bow or handle A having the blade B, and the blade C having and described. 3rd. The combination of the purposes set forth, as and for the purposes set forth, and described. 3rd. The combination of the bow or handle A having the blade B, and the blade C having the extension Cr, and the stops of and cr, as described. cz. as described.

No, 18,391. Cut-Out for Magnets in Telephone Circuits. (Interrupteur des aimants dans les circuits de téléphones.)

Hugh C. Baker, Hamilton, Ont., 10th January, 1884; 5 years.

Hugh C. Baker, Hamilton, Ont., 10th January, 1884; 5 years.

Claim.—1st. The combination, with a magnet, of shunt wires, the resistance of the coil from the circuit, substantially as herein shown and described. 2nd. The combination, with a magnet and a hinged plate, of two wires connected with the two conducting wires and having their free ends so located that the hinged plate can rest on them when it is lowered, substantially as herein shown and described. 3rd. The combination, with a magnet and an annunciator plate, of 3rd. The combination, with a magnet and an annunciator plate, of wires connected with the conducting wires connected with the magnet, which wires have contact points at their free ends, which free ends are so located that the annunciator plate can rest on them when lowered, substantially as herein shown and described. 4th. The combination, with a magnet and an annunciator plate, of wires connected with the conducting wires connected with the magnet, which wires have springs on the free ends, which free ends are located in such a manner that the annunciator can rest on them when it is lowered, substantially as herein shown and described.

No. 18,392. Steam Jet Apparatus for the Mixing of Steam Vapours, Air or Gases, with Water or Equivalent Liquid. (Appareil à jet de va-peur pour mêter les fumées de vapeurs, ou le aux avec de " ou le gaz avec de l'eau ou un liquide équivalent.

Ernst Korting, Hanover, Germany, 10th January, 1884; 5 years.

Claim.—1st. In a jet apparatus, the combination of a liquid supply nozzle, a fluid supply and a combining tube provided with administ tube or throat having a substantially uniform diameter from lead supply nozzle A, a corresponding delivery tube C and an intermediate supply nozzle A, a corresponding delivery tube C and an intermediate mixing or combining tube B having a cylindrical, or substantially mixing or combining tube B having a cylindrical, or substantially mixing or combining tube B having a cylindrical, or substantially mixing or combining tube B having a cylindrical, or substantially mixing or combining tube B having a cylindrical, or substantially mixing or combining tube glements: a liquid supply nozzle, a corresponding delivery tube, an intermediate mixing or combining tube provided with a series of forwardly inclined inlets or perforations, adapted to cause the surrounding vapor to pass inward at numerous points upon and against a central water jet, and thereby urge the same forward. -1st. In a jet apparatus, the combination of a liquid supply fluid supply and a combination of a liquid supply

No. 18,393. Automatic Electric Cut-out.

(Interrupteur automatique électrique.)

Charles G. Perkins, New York, N. Y., U. S., 10th January, 1884; 5 years.

years.

Claim.—1st. In combination with an automatic electric out-out, a roller provided with each end thereof, for the reception of a motaling strip, the whole held in position by a stud mounted with a retracting strip, a red in a recess made in a binding post arranged opposite a second binding post, both of which support the aforeshid opposite a second binding post, both of which support the arranged opposite a second binding post, both of which support the arranged opposite a second binding post, both of which support the arranged opposite as the strip of which support the arranged opposite as the strip of which support the arranged opposite as the strip of which an automatic electric cut-out, the opening of and binding post Br, substantially as shown and described. 4th. The combination, thereof, substantially as shown and described, box A, binding post Br, metallic strip K, the whole forming G, roller C, projections D Dr, metallic strip K, the whole forming an automatic electric cut-out, substantially as shown and described.

No. 18,394. Heating Furnace. (Calorifère.)

David W. Robb, Amherst, N. S., 10th January, 1834; 5 years of Claim.—1st. The combination, with a fire-pot, of a lining of a series of sections provided with hook projections for suspelows them, and with inwardly curved prongs, projecting from the edges, substantially as and for the purpose hereinbefore series of the projecting singular flanges B, C, of the lining sections D provided with the inwardly curved projecting singular flanges B, C, of the lining sections D provided with hook projections E and with riss F, having the lower ends edges, inward and having notches a, in the lower ends of the outer of the substantially as and for the purpose hereinbefore set forth. Sfanged combination, with the fire-pot A and the grate H. of the flanged wheels J mounted on the grate, and of the rails K, substantially as and for the purposes hereinbefore set forth. The combination on the grate, and of the flanged wheels J, with the fire-pot A and the grate H. of the flanged wheels J, with the fire-pot A and the grate H, of the flanged wheels J, with the fire-pot A and the grate H, of the flanged wheels J, with the fire-pot A and the grate H, of the flanged wheels J, with the fire-pot A and the grate H, of the flanged wheels J, with the fire-pot A and the grate H, of the flanged wheels J, wheels J mounted on the grate, and of the rails K, provided with several curvatures M, which are also curved upward, substantially as and for the purpose hereinbefore set forth.