No. 17,279. Automatic Window Screen.

(Ecran automate de fenêtre.)

John M. Bryant, (Assignee of Richard J. Barrett,) Whitby, Ind., U.S., 13th July, 1883; 15 years.

Chaim—1st. The roller a having notch n in one end, in combination with bracket i having slotted socket m, shafts h and springs b, substantially as described. 2nd. The combination of the screen e attached to the lower sash f, the roller a having notch n in one end, the brackets i having slotted socket m, shafts h and springs b, substantially as described

No. 17,280. Improvement in Sad Iron Holders. (Perfectionnements des poignées de fers à repasser.)

John O'Neil, Boston, Mass., U.S., 16th July, 1883; 5 years.

John O'Neil, Boston, Mass., U.S., 16th July, 1883; 5 years. Claim.—1st. The improved sad iron holder herein described, the same consisting of the pad or body C, shield E and wire D, the shield being joined to the pad by the wire, and the wire provided with the loops K, for attaching the holder to the handle, substantially as set forth... 2nd. The pad C provided with the narrow extension I, in combination with the wire D and shield E, substantially as and for the purpose specified. 3rd. A shield for protecting the hand from the heat of the iron, said shield being hinged to the pad or body of the holder by means of a wire, which also forms the loops for attaching the holder to the iron, substantially as set forth. 4th. The wire D provided with the loops K, the loops and body of the wire being integral or composed of one piece, substantial ly as set forth.

No. 17,281. Improvement in Fire-Escapes.

(Perfectionnements des sauveteurs d'incendie.)

John T. Hodson, Cambridge, Mass., U.S., 16th July, 1883; 5 years. Claim—1st. The improved fire-escape described, the same consisting of the plates A connected by the rods B C D and provided with the brackets D. the sack S provided with the chains R, the cylinder E provided with the shaft G, spring H, pulleys J and cords x, the lever K provided with the shaft G, spring H, pulleys J and cords x, the lever K provided with the shaft G, spring H, pulleys J and cords x, the lever K provided with the shae P, and the bracket arms T provided with the jaws gh, hole p, spike r, teeth l, paul l and pin r, constructed, combined and arranged to operate substantially as set forth. 2nd. A sack or carriage attached to a frame work and adapted to hold one or more persons, a cylinder mounted in the frame work and adapted to revolve therein, a brake for regulating the revolutions of the cylinder and a cord or cords passing around the cylinder for suspending the frame work and sack from a building, substantially as shown and described. 3rd. The bracket-arm T provided with the jaws gh, and means for holding the jaws in contact with the frame work of the window, substantially as specified. 4th. The cylinder E in combination with the sack S, cords x, and means for regulating the revolutions of the cylinder, substantially as set forth. 5th. A brake consisting of the levers N K, chain M, pad P and pull L, combined and arranged to operate with the cylinder E, substantially as set forth. 7th. The projection O provided with the hole p, in combination with the arm T and spike r, substantially as shown and described. 8th. The spring H in combination with the shaft G, cylinder E and cords. x Adapted to retard the fall of the sack or carriage by winding up the cords when the carriage is relieved of its load and released, substantially as described. John T. Hodson, Cambridge, Mass., U.S., 16th July, 1883; 5 years.

No. 17,282. Improvements in Small Boats.

(Perfectionnements aux canots.)

James Dean, Detroit, Mich., U.S., 16th July, 1883; 5 years.

Claim.—1st. The sheathing-planks having portions of their adjacent edges crushed in longitudinally, adapted to be secured together, as shown, the crushed portion swelling where exposed to the action of water beyond the uncrushed surface forming a stop-water at each joint, as specified. 2nd. The sheathing-planks C having portions of their edges crushed in, as shown at dz, combined with each other and with a boat-skeleton, and adapted to serve as and for the purposes set forth. 3rd. A boat having its sides sheathed with narrow planks-aid planks being all of the same pattern each straight upon one edge and curved upon the other edge, substantially as described. 4th. A boat having its sides sheathed with narrow planks, said planks being all of the same pattern, each straight upon one edge and curved upon the coher edge, substantially as described.

No. 17,283. Hydrocarbon Vapour Generator and Dianton Hydrocarbon Burner for Furnaces. (Générateur à gaz d'hydrocarbures et foyer à hydrocarbures de

Dianton pour les fourneaux.) Israel R. Blumenberg, Washington, D. C., and Henry W. Whiting, Philadelphia, Pa., U.S., 16th July, 1883; 5 years.

Philadelphia, Pa., U.S., 16th July, 1883; 5 years.

Claim.—1st. The method of moistening and thus preserving the crown sheets of the boilers and other metal parts exposed to hydrocarbon flame, by throwing a jet of steam thereon, through a pipe or conduit connected with a steam-boiler, and secured in and passing longitudinally through and out beyord the burner-tip of a hydrocarbon vapour generator and burner, substantially as shown and described. 2nd. The method of throwing a continuous flood of fresh steam upon metal portions of boilers, furnaces. &c., exposed to hydrocarbon flame by conducting it through, and in advance of the flame, in ejecting it thereon from a steam conduit or pipe longitudinally adjusted and by the ends secured in a conical cylindrical hydrocarbon vapour generator and burner having a small neck and terminating in a hemispherical head, by which means the parts exposed to the flame

are kept moist in a perspiration and are thus preserved from destruction by burning, substantially as shown and described. 3rd. In a device for generating and burning hydrocarbon vapour, the method of simultaneously introducing steam and oil into one common conical cylindrical chamber having a small neck terminating in a hemispherical head and surmounted by a numerously perforated vapour burner, and converting the two into a highly combustible hydrocarbon vapour, by thoroughly mingling and bringing them in contact with a metal pipe longitudinally adjusted therein, and heated by a continuous current of steam passing therethrough, substantially as shown and described. 4th. A conic cylindrical hydrocarbon vapour generator having a small neck and provided with hemispherical or saucer shaped removable head surmounted with a broad circular burner-tip provided with numerous perforations for the passage of vapour directed to one common centr: beyond, with a view to concentrating the flame at one point, in combination with a steam conduit and heating tube secured in the ends and adjusted longitudinally through the vapour generating chamber and arranged to pass beyond the burner-tip for throwing a flood of steam into the parts of metal, &c., exposed to the flame, substantially as shown and described. 5th. A conical cylindrical hydrocarbon vapour generator and burner for furnaces and other mechanical purposes, having a small neck and provided with a removable hemispherical or saucer shaped head, in combination with a broad circular burner-tip having numerous perforations for the passage of the vapour directed to a common centre beyond for concentrating the flame, a steam conduit and heating pipe ascured in the ends and extending longitudinally through the vapour generating chamber and the burner tip, and passing beyond for throwing a flood of steam into the metal exposed to the hydrocarbon burners, substantially as shown and described. 6th. In combination, broad burner-tip h with perforations tending to a common centre st

No. 17.284. Knife for Peeling Potatoes.

(Couteau pour peler les patates.)

William Addison, Hamilton, Ont., 16th July, 1883; 5 years.

Whitain Admiss, Hamiton, Ott., 16th odf., 1885, 3 years.

Claim.—A knife to be used with either the right or left hand, having two blades D and E uniting in a shank C, said blades being curvilinear-shaped alike right and left as shewn, the pecling edges F F coming nearly together at an angle with a parallel space between, as described, also the cutting edges H H and the points I, all combined and operating substantially as set forth.

No. 17,285. Improvements in Car Brakes.

(Perfectionnements aux freins des chars.)

Simon P. Weller, Silvanus Wanes and George R. Roesch, Denver-Col., U.S., 16th July, 1883: 5 years.

Claim—1st. The rod A, equalizer A1, rod F, lever B, in combination with the rods B1, and H, the whole being constructed and operated in the manner and for the purposes set forth. 2nd. The rod A, equalizer A1 and F, lever B, rods B1 and H, in combination, the cylinder T, levers S K and rod R, substantially as described and for the purposes

No. 17,286. Machine for Washing Textile Fabrics. (Machine à laver les tissus.)

Richard Troy and Albert A Fisher, Oshawa, Ont., 16th July, 1883; 5

Claim.—1st. The vibrating grooved board B. 2nd. The endless chain of wood rails E. 3rd. The combination of the tub A with the vibrating grooved board B, and the endless chain of wood rails E with the soap-holders I and the rollers F and G.

No. 17,287. Automatic Metallic Packing for Piston Rods, &c. (Garniture métallique automatique pour les tiges de piston,

Samuel M. Weale, Boston, and Tilden G. Abbott, Watertown, (Assignees of Henry P. Weale, Boston,) Mass., U.S., 16th July, 1883; 5 years.

Claim.—The combination, in a stuffing-box, of the internally tapered shell, the series of tapered packing rings and the rings FG at the ends of said series of packing rings, these rings F and G having annular flanges FI GI and the ring GI, an annular groove to receive a rubber gasket, all substantially as and for the purposes set forth.