

No. 32,240. Game Apparatus.*(Appareil de jeu.)*

Ferdinand C. Roberts, Chicago, Ill., U. S., 10th September, 1889; 5 years.

Claim.—1st. A set of game blocks, having the different characters, denominations and suits represented in a pack of playing cards indicated on the faces thereof, substantially as and for the purpose set forth. 2nd. A game-board, provided with a number of connecting and intersecting grooves or paths, as described, for the reception of a set of blocks, having playing characters indicated on the faces thereof, and adapted to be moved along said grooves, substantially as and for the purpose set forth. 3rd. In a game apparatus, the combination, with a board A, of the moulding B and blocks b₁, both secured to said board, and so spaced as to form a number of connecting and intersecting grooves or paths, and both provided with overlapping edges and the card blocks inserted in said grooves, substantially as and for the purpose set forth. 4th. A set of game blocks, provided with playing characters on the face thereof, and having the surface enameled, substantially as and for the purpose set forth.

No. 32,241. Toy. (Jouet.)

Frederick Oakley, Toronto, Ont., 10th September, 1889; 5 years.

Claim.—1st. As a new toy, the concave-convex disc-shaped perforated plates A, in combination with the strings B, arranged substantially as specified. 2nd. As a new toy, the concave-convex disc-shaped perforated plates A, having a fan E pivoted between them, in combination with the strings B, arranged substantially as specified. 3rd. As a new toy, the concave-convex disc-shaped, perforated plates A, having a reed F arranged between them, in combination with the strings B, substantially as specified. 4th. As a new toy, the concave-convex disc-shaped perforated plates A, having a fan E pivoted between them, and the reed F arranged substantially as and for the purpose specified.

No. 32,242. Presser Foot Hemmer.*(Ourluse à pied de biche.)*

Alice La G. Mayo, Great Falls, M. T., U. S., 10th September, 1889; 5 years.

Claim.—1st. In a sewing machine attachment, the combination, with a body bar, constituting a presser foot, of a hem former attached thereto, substantially as shown and described. 2nd. In a sewing machine attachment, the combination, with a body bar constituting a presser foot, of a hem former secured to the said body bar, and a gauge held to slide upon said bar, substantially as described. 3rd. In a sewing machine attachment, the combination, with the presser foot provided with a heel extension, of a hem former secured to the presser foot between the centre and the toe, and a gauge adjustably attached to the heel extension, substantially as described. 4th. In a sewing machine attachment, the combination, with a presser foot, provided with an attached hem former and a heel extension, of gauge bars held to slide upon the presser foot, capable of lateral adjustment, the said gauge bars operating in unison, substantially as shown and described. 5th. As an improved article of manufacture, a sewing machine attachment, consisting of a presser foot, having an attached hem former and heel extension, and a gauge bar or bars adjustably secured to the foot, substantially as and for the purpose specified. 6th. In a sewing machine attachment, the combination, with the presser foot and a gauge bar adjustably U, on the said presser foot, provided with an angular arm at one end, of a hem forming arm parallel with the angle arm of the gauge bar, and a pivotal connection between the said arm and gauge bar, all combined for operation substantially as shown and described. 7th. The combination, with the body bar A, provided with an apertured post for the reception of the presser bar, and a hem former secured to the said bar, of an adjustable frame, consisting of a slotted side bar B having an integral guide bar D, an opposing side bar B₁, provided with an integral retaining bar E engaging the guide bar, and a pivoted cross bar C, all adapted to operate substantially as and for the purpose specified. 8th. The combination, with a body bar A, provided with an apertured post adapted to receive the presser bar, and a hem former H secured to said body bar, of an adjustable frame, consisting of a slotted gauge bar B, adjustably secured to the body bar, a transverse angled bar D secured to said gauge bar, an opposing narrower side bar B₁, sliding in the body bar, a transverse retaining bar secured to said narrower side bar engaging the under face of the guide bar, and a cross bar C pivotally secured to one end of the side bars, all operating substantially as shown and described.

No. 32,243. Sewing Machine Attachment.*(Disposition aux machines à coudre.)*

Alice La G. Mayo, Great Falls, M. T., U. S., 10th September, 1889; 5 years.

Claim.—1st. An attachment for sewing machines, consisting of a presser foot or block, provided with a rear extension or heel, for the purpose specified. 2nd. The combination, with a presser foot or block having a rear extension, of a gauge or guide bar held to slide upon the said extension, substantially as shown and described. 3rd. The combination, with a presser foot or block, having a rear extension, of a gauge or guide bar held to slide upon the said extension, substantially as shown and described. 3rd. The combination, with a presser foot or block, having a rear extension, of a guide bar held to slide upon the said extension, and provided with a gauge arm or arms, substantially as shown and described. 4th. The combination, with a presser foot or block adapted for attachment to the presser bar of the machine, and provided with a rear extension, of a longitudinally slotted guide bar held to slide transversely upon the extension of the presser foot or block, an arm integral with one or both extremities of the guide bar, and a set or thumb screw clamping the guide bar to the presser foot, substantially as and for the purpose

specified. 5th. The combination, with a presser foot or block, provided with a side recess, a sleeve supported above the said side recess, adapted for the reception of the presser bar of the machine, and a needle slot or opening in the forward end of a longitudinally slotted guide bar held to slide transversely across the presser foot or block to the rear of the sleeve, and provided with a scale or scales thereon, and a gauge arm or arms projected at a right angle from the said guide bar parallel with the longitudinal axis of the presser foot or block, all combined for operation substantially as shown and described.

No. 32,244. Pipe Coupling. (Joint de tuyau.)

The McElroy Car Heating Company, Detroit, (assignee of James F. McElroy, Lansing), Mich., U. S., 11th September, 1889; 5 years.

Claim.—1st. In a pipe-coupling for railway cars, the combination of the two train pipes B, with the hose C formed as shown, and metal couplings, substantially as described. 2nd. In a pipe-coupling for railway cars, the combination of the train-pipes B flexible connections C formed as shown, of two like coupling heads provided with handles h, and disconnecting cables O, substantially as described. 3rd. In a coupling for railway cars, the connections C formed as shown, and two coupling heads H₁ and H, substantially as described. 4th. In the combination in a pipe-coupling, of the head H₁, thimble I, ring sections J, stud K, pits L, and collar M, substantially as described. 5th. The combination in a pipe-coupling, of a head thimble I, ring sections J, stud K, pits L, collar M, and mortice and tenon engagement between the ring and collar, substantially as described. 6th. The combination in a pipe-coupling, comprising two similar half couplings H₁, H₂ secured to flexible connections C, packing ring a, hooks c, grooves e, and collar f, substantially as described. 7th. The combination in a pipe-coupling, comprising two similar half couplings H₁, H₂ secured flexible connections C, packing ring a, hooks c, grooves e, collar f, and handles h, substantially as described. 8th. The combination in a pipe coupling comprising two similar half couplings, the bushing b, the hooks c, recesses e, collars f, flanges k, recesses i, and handles h, substantially as described.

No. 32,245. Machine for the Manufacture of Paper Boxes. (Machine pour la fabrication des boîtes en papier.)

James W. Hutt and William R. Draper, Toronto, Ont., 11th September, 1889; 5 years.

Claim.—1st. The combination of four rolling formers operated in conjunction with a reciprocating plunger, arranged substantially as and for the purpose specified. 2nd. The combination, with a reciprocating plunger, of rolling formers, and finishing rollers arranged in connection and operated with each other, by mechanism, arranged substantially as specified. 3rd. The plunger A supported from the cross-head B, and deriving a reciprocating motion through the vertical rods C from the cam E fixed to the driving shaft D, in combination with the forming rollers G and H, suitably journaled and deriving motion through the shafts J and K from the driving shaft D, substantially as and for the purpose specified. 4th. The plunger A, and forming rollers G and H deriving motion, as described, in combination with the finishing rollers M and N supported on the movable plates O, which derive motion through the rods R and T, and rock-shaft S from the cam U fixed to the shaft D, substantially as and for the purpose specified.

No. 32,246. Oil Heating Stove.*(Poêle de chauffage à huile.)*

August F. Zimmerling, John A. Dutcher and Pierpont E. Dutcher, Milwaukee, Wis., U. S., 11th September, 1889; 5 years.

Claim.—1st. The combination in an oil heating stove, of an annular base A, reservoir N located within the opening of said base A, annular wall J, cylindrical wick tube C located within said annular wall J, the centre of which wick tube forms an air space communicating from the exterior air through the annular base A to the combustion chamber above the wick tube, inlet cold air duct E located centrally within said wick tube C at a slight distance therefrom, forming thereby an air space I between said wick tube C and said air duct B, drum or exterior cylinder F resting at its lower end upon the base A exterior to said wick tube, interior drum or cylinder E communicating at its lower end with the upper end of the said cold air duct B, and its upper end through the perforated cover G, cover G, annular air chamber B₁ affixed to the upper end of said drum F and having communication therewith through the apertures D₁, said annular chamber B₁ being provided with air escape aperture E₁ communicating with the room, and with air duct T communicating with the exterior air, substantially as and for the purpose specified. 2nd. In an oil stove for heating purposes, the combination of the base A, drums or air ducts E and F arranged one within the other forming thereby an annular combustion chamber C₁, communicating at its lower end with the base A upon the respective sides of the wick tube, and at its upper end with the annular chamber B₁, whereby the air passage is formed on either side of said wick tube, and also thereby forming a central hot air duct E communicating from the base A through the centre of the flame, with the perforated cover G, cover G, annular chamber B₁ provided with a series of apertures B₁, air controlling slide F₁, and air escape pipes T provided with air controlling damper G₁, substantially as and for the purpose specified.

No. 32,247. Letter Post Marking and Cancelling Machine. (Machine à timbrer les lettres et à maculer.)

The International Postal Supply Company, New York, (assignee of August Bertram, Brooklyn), N. Y., U. S., 11th September, 1889; 5 years.