

angularly pinned side walls, substantially as set forth. 4th. A wooden box having bevelled edges to the opening therein, internal side grooves to receive locking projections from a wooden lid, and angularly pinned side walls in combination with a lid having bevelled edges corresponding to the edges of the box opening, a cross bar and undercut grooves thereto, substantially as set forth.

No. 41,807. Game. (Jeu.)

Frederick T. Butler, Toronto, assignee of George H. Coe, Grimsby, all in Ontario, Canada, 4th February, 1893; 6 years.

Claim.—1st. In a game apparatus, substantially as described, a piece or man, provided with a device adjustably secured to, or placed thereon, to indicate the piece or man having the ball, substantially as described. 2nd. In a game apparatus, a chart or board A, having the lines H, and spots C, thereon, in combination with a suitable number of pieces or men, divided into two or more sets, suitably coloured or otherwise designated, one of which men having the ball, is provided with a device D, adjustably secured to, or placed thereon, to indicate the piece or man having the ball, substantially as described. 3rd. In a game apparatus, a chart or board A, having the lines H, and spots C, some of the latter being enclosed in a circle to designate the position of the men at the commencement of the game, in combination with a suitable number of pieces or men, divided into two or more sets, and suitably coloured or otherwise designated, one of which men having the ball, is provided with a device D, adjustably secured to or placed thereon, to indicate the piece or man having the ball, substantially as described.

No. 41,808. Inner Sole for Footware.

(*Fausse-semelle pour chaussures.*)

Augustine F. Littlefield, Lynn, Massachusetts, and Isaac Buck Lewis, Brooklyn, New York, all in the U.S.A., 4th February, 1893; 6 years.

Claim.—As an improved article of manufacture, an inner sole having a channel therein, a filling secured in the channel, and a veneer secured to its top surface and doubled over the edge so as to cover the channel, substantially as described.

No. 41,809. Computing Machine. (Machine à compter.)

Thomas B. Walker and Sarah E. Wilson, both of Minneapolis, assignees of Peter J. Landin, of Minneapolis aforesaid, all in Minnesota, U.S.A., 4th February, 1893; 6 years.

Claim.—1st. The combination, with a suitable casing, of a series of ratchet wheels arranged therein, and a series of slides arranged in said casing, and partially exposed and provided with a series of notches arranged to engage said ratchet wheels as the slide is moved in one direction, and to pass said ratchet wheels without moving them as the slide is moved in the opposite direction, and provided also with a numbered series of notches arranged in the exposed portion of said slides, and corresponding with the series of notches which engage with the wheels, substantially as described. 2nd. The combination, with a suitable casing, of a series of slides arranged in said casing and partially exposed, of a series of ratchet wheels arranged in said casing, and adapted to be engaged by said slides as they move in one direction, and to remain stationary as the slides move in the opposite direction, and provided with a series of numbers or figures, and means for automatically retracting said slides after each movement thereof, substantially as described. 3rd. The combination, with a suitable casing, of a series of ratchet wheels arranged therein, provided with figures or characters, and a series of slides engaging said ratchet wheels, and provided with a series of numbered notches or recesses arranged on exposed portions of said slides, whereby as said slides are moved by placing an instrument upon one of the notches, the corresponding ratchet wheel will be moved to register a number corresponding to the number of the notch so engaged, and will remain in this position while the slide is returned to its normal position, substantially as described. 4th. The combination, with a suitable casing, of a series of ratchet wheels arranged therein, means for resetting said wheels after each operation, and a series of slides arranged to engage directly with said wheels, and turn them as the slides are moved in one direction, and to pass without turning them as the slides are moved in the opposite direction, and provided with a series of numbered notches arranged outside of a said casing, for the purpose specified. 5th. In a machine of the class described, the combination, of a notched slide provided with a series of numbers, a stop arranged in the line of movement of said slide, and a ratchet wheel engaged and turned by said slide as it is moved in one direction, and provided with a series of numbers whereby as said slide is moved to bring any one of its numbers opposite said stop, the ratchet wheels are turned and the same number is registered, substantially as described. 6th. In a machine of the class described, the combination, with the casing having an inclined lower wall and an open lower front portion, of a series of slides arranged in said casing, and provided with numbered notches

arranged opposite the open portion of said casing, and a series of registering wheels arranged in said casing opposite an opening through which the numbers on the wheels may be seen, and adapted to be engaged and operated by said slides as they are moved in one direction and to remain stationary as they are moved in the other direction, substantially as described. 7th. In a machine of the class described, the combination, with a casing having a portion of its front open, of a series of slides arranged in said casing, and having a series of numbers arranged opposite the open portion of said casing, whereby said slides may be moved by the application of a suitable instrument to any one of its notches, springs for returning said slides to their normal positions after each operation, and a series of registering wheels arranged in said casing opposite a suitable opening, and adapted to be engaged and operated by said slides as they are moved in one direction only, substantially as described. 8th. The combination, with a series of registering ratchet wheels, of a series of slides provided with a series of notches corresponding to the ratchet teeth upon said wheels, and adapted to engage and turn said wheels as the slides are moved in one direction, and means for preventing a reversed movement of said wheels as the slides are turned in the opposite direction, and a series of numbered notches upon said slides corresponding to the numbers upon said wheels, whereby said slides are adapted to be moved by engaging a suitable instrument with any one of said notches, substantially as described. 9th. The combination with a suitable casing, of a series of ratchet wheels arranged therein and provided with a series of characters or figures, a series of slides engaging said ratchet wheels, and provided with a series of numbered notches or recesses arranged in portions of said slides that are exposed, means for preventing said wheels from moving in a reversed direction, and means for automatically retracting said slides after each operation, substantially as described. 11th. The combination, with a series of registering wheels provided with ratchet teeth or notches, of a series of slides provided with a corresponding series of ratchet teeth or notches adapted to engage directly with the teeth upon said wheels as said slides are moved in one direction, means for retracting said slides after each movement, and means for preventing a reverse movement of said wheels, substantially as described. 11th. The combination, with a casing 2, provided with a shaft 4, of the series of ratchet wheels arranged upon said shaft, and having a figure or character for each ratchet tooth or notch upon each wheel, said wheels being arranged opposite an opening in said casing, a series of slides provided with ratchet teeth corresponding with the teeth upon said wheels, and provided with a corresponding series of numbered notches arranged in a portion of said slides that is exposed, and springs for returning said slides to their normal positions after each movement, and means for preventing a reverse movement of said wheels, substantially as described. 12th. The combination, with a series of registering wheels and means connecting said wheels, whereby each wheel is caused to move one notch or space, when the next lower wheel in the series moves a complete revolution, each of said wheels being provided with a series of ratchet teeth or notches, of means for preventing said wheels from moving in the reverse direction, a series of slides each provided with a series of teeth or notches corresponding with the ratchet teeth or notches on said wheels, and adapted to engage and turn said wheels as the slides are moved in one direction, and means for retracting each of said slides after each movement thereof, substantially as described. 13th. The combination, with a series of registering wheels and means connecting said wheels, whereby each wheel is caused to turn one space when the next lower wheel in the series makes a complete revolution, of means for preventing said wheels from moving in the reverse direction, means for simultaneously setting all of said wheels at zero, a series of slides each provided with a series of ratchet teeth corresponding to the teeth upon said wheels, and adapted to engage and turn said wheels as the slides move in one direction, and means for retracting said slides after each movement, substantially as described. 14th. The combination, with a suitable case, of a series of registering ratchet wheels arranged therein, means connecting said wheels whereby each wheel is caused to move one space as the corresponding wheels make a complete revolution, means for preventing the reverse movement of said wheels, a series of slides, each provided with a series of ratchet teeth or notches corresponding to the teeth on said wheels, and with a corresponding series of numbered notches arranged in exposed portions of said slides, and means for retracting each of said slides after each movement thereof, substantially as described.

No. 41,810. Railway Signal. (Signal de chemin de fer.)

Arthur Wellesley Berne and William H. Walsh, both of New York, State of New York, U.S.A., 4th February, 1893; 6 years.

Claim.—1st. In combination, insulated electric conductors located along a railway track, a part of an electric circuit on a motor and in electric connection with the insulated conductor, said partial circuit including a signal and a battery, and a circuit closer in connection with the aforesaid insulated conductors, whereby a complete circuit is made through the signal on the motor whenever the motor enters upon a block where the insulated conductors are in closed electric connection at another point than through the signal, substantially as set forth. 2nd. In combination, insulated electric conductors located along a railway track, a part of an electric circuit on a locomotive and in electric connection with the insulated conductors, said partial circuit including a signal and a battery, a movable rail form-