

No. 34,905. Book Attachment.

(Accessoires pour livres.)

Thornton Flemming Gregg, New York, N. Y., U. S., 25th August, 1890; 5 years.

Claim.—1st. The combination, with the index or similar book, of the cover of heavy paper or similar material, the flap or leaf *g*, formed as a continuation of one cover, and having a turned over edge portion *g'*, the strip *h*, in part attached to the upper face of the folded edge, and the adjacent faces of the portions *g'* and strip *h*, being surfaced with adhesive material, substantially as specified. 2nd. The combination, with the index or similar book, of the cover of heavy paper or similar material, the flap or leaf *g*, formed as a continuation of one cover and having a turned over edge portion *g'*, the strip *h* attached to the upper face of the folded edge, and the adjacent faces of the portion *g'*, and strip *h* being surfaced with adhesive material, and the strip *i*, of binders' board secured to the upper face of the free edge of the strip *h*, substantially as and for the purposes set forth.

No. 34,906. Barrel Trunk. (*Valise-baril.*)

Sophia Bethena Jones, Atlanta, Ga., U. S., 25th August, 1890; 5 years.

Claim.—1st. In a barrel trunk, the combination, with the body having recesses provided with cross-bars, of the detachable feet having their ends bent to form braces abutting against the body of the trunk, said feet being provided at their upper ends with bent portions adapted to be inserted into the said recesses over the cross bars, substantially as set forth. 2nd. In a barrel trunk, the combination with the trunk body, having recesses provided with cross-bars, as described, of the spring feet having braces to abut against the body of the trunk, and bent ends adapted to be inserted into the recesses over the cross bars, and to be retained in said recesses by the spring catches formed by the bent ends engaging the cross bars, substantially as set forth. 3rd. In a barrel trunk, the combination, with the body having the hinged lid or cover, of the semicircular lids 12, hinged to a horizontal partition in one end of the trunk, and the tray supported removably upon longitudinal cleats adjacent to the front and rear sides of the cover, substantially as set forth.

No. 34,907. Alphabetical Letters and Numerical Figures, for Signs, Advertising and other Purposes.

(Lettres alphabétiques et chiffres, pour enseignes, annonces et autres.)

Robert Fergus Smith, Dunedin, New Zealand, 25th August, 1890; 5 years.

Claim.—The combination, for the production of letters or numerals of the parts 1 to 9, inclusive, as shown and described for the purpose set forth.

No. 34,908. Means for Advertising and for Indicating the Departure, Arrival and Stopping Places of Trains. (*Moyen d'annonce et indicateur du départ, de l'arrivée, et des arrêts des trains.*)

Alfred William Armstrong, London, Eng., 25th August, 1890; 5 years.

Claim.—1st. The combination, with a magic lantern, having pictures or slides arranged to be moved successively into position between the light and lens, of a mirror so arranged that the rays of light passing through the said lens and reflected by the said mirror, will fall obliquely upon a vertical, or nearly vertical, surface beneath or at either side of the said lens, for the purpose specified. 2nd. The combination of a frame or case, a magic lantern, and means comprising a suitable electrical circuit and electrical contacts, and clock work adapted to periodically make and break the said circuit, and thus through an electro-magnet release and permit the periodic operation of other clock-work, for automatically changing or shifting the pictures or slides enclosed in the said frame or case, and a mirror, whereby the rays of light passing through the said lens will be reflected upon the said frame or case, or upon a surface in front of the same, for the purpose specified. 3rd. The combination of the electric lighter *x*, the cock or valve *y*, electro-magnet *w* and the contact pieces *Y*², *Z* and *Z'*, for automatically lighting the lamp *x'*, when the supply of the illuminant is turned on, and for closing, or completing the electric circuit to the clock-work mechanism by the same operation, substantially as described. 4th. The combination of the disc *H*, electro-magnet *L*, armature *K*, pawl or tooth *K'*, and contact springs or pieces *I* and *G*, for automatically extinguishing the light at any predetermined time. 5th. The arm or lever, having a suitable extension, and acted upon by a spring, and the shutter or shutters or slides, as and for the purpose specified. 6th. In an apparatus for exhibiting pictorial and other advertisements, at night or in dark places, a screen of semi-opaque glass, on the exterior of which the advertisement or the like will be projected or reflected, and on the interior of which the direct rays from the lamp will fall, for the purpose specified.

No. 34,909. Sad Iron. (*Fers à repasser.*)

John H. Dubrow, Cleveland, Ohio, U. S., 25th August, 1890; 5 years.

Claim.—1st. The sad iron, having its supply tank or holder connected thereto by a pipe passing through the top of the iron, and having an arm within the iron, extending out beyond one end or edge of the iron, and outward and downward, and uniting at its

lower end with an upward and outward inclined arm, having a plug valve closing a jet opening in its lower end, and the burner having an upward and outward inclined tube, the upper end of which stands opposite and slightly away from the jet opening of said latter pipe arm, substantially as set forth. 2nd. The sad iron, having its supply tank or holder connected thereto by a pipe passing through the top of the iron, and having an arm within the iron extending out beyond one end or edge of the iron, and outward and downward, and uniting with an upward and outward inclined arm, having a plug valve closing a jet opening in the lower end of the latter pipe arm, and the burner having an upward and outward inclined tube, the upper end of which stands opposite and slightly away from the jet opening of said latter pipe arm, the said tank having a valved air tube in its upper end, substantially as specified. 3rd. The sad iron, provided with the burner, and a tank or holder having its discharge pipe connected to the sad iron cover, substantially as shown and described. 4th. The sad iron, provided with the burner having a filling tube projecting upwardly and outwardly through the sad iron, and holder or tank having its discharge pipe connected to the sad iron cover or top, and provided with an air inlet tube or mouth piece, provided with a valve or cock, substantially as shown and described. 5th. The sad iron, provided with the burner having a filling tube projecting upwardly and outwardly through the sad iron, and holder or tank having its discharge pipe connected to the sad iron cover or top, and provided with an air inlet tube or mouth piece, provided with a valve or cock, substantially as shown and described. 6th. The sad iron, provided with a burner or lamp, having a filling tube extending outwardly through the sad iron, and the tank or holder having an air inlet valve in its upper end, substantially as shown and described. 7th. The sad iron, provided with the tank or holder, having the supply pipe running therefrom, and air inlet valve in its upper end containing a series of connected orifices, the opening and closing of which is regulated by a set screw, substantially as shown and described.

No. 34,910. Converting Iron into Steel.

(Acier le fer.)

Francis Gordon Bates, Philadelphia, Pennsylvania, U. S. A., 25th August, 1890; 5 years.

Claim.—The within described mode of converting into steel, of any desired degree of hardness or quality, iron of any description, or low steel, said mode consisting in packing the articles in a tight flask with carbon silica and alumina in proportions, substantially as specified, and then subjecting the closed flask and its contents to the action of heat, as set forth.

No. 34,911. Flanged Bobbin. (*Bobine à rebord.*)

Joshua Henry Wilson, and John Greenwood, Cornholme, Todmorden, Lancaster, England, 25th August, 1890; 5 years.

Claim.—1st. A flanged bobbin, having two parallel continuous peripheral grooves formed in the rim of the flange or head and having secured thereto a strip or band of metal substantially U-shaped in cross section, the lateral edges of which are wrapped or compressed into the said peripheral grooves to form a protecting and strengthening band, substantially as hereinbefore described. 2nd. A flanged bobbin, having a continuous peripheral groove or recess *b'*, formed in the outer portion of one of the faces of the flange or head, and a parallel groove formed in the rim of said flange intermediate of its two faces, and having a closely fitting protecting strip or band of metal bent around the periphery of the flange and into said grooves, substantially as hereinbefore described.

No. 34,912. Brick Shot. (*Boulettes de brique.*)

Guido Cintio Alexius, Covington, Louisiana, U. S. A., 25th August, 1890; 5 years.

Claim.—1st. As a new article of manufacture, shot formed of suitable earths, substantially as specified. 2nd. Shot formed from suitable earths, and having a rough external surface, substantially as specified.

No. 34,913. Machine for Cleaning or Washing Barley for Brewing Purposes. (*Appareil pour nettoyer ou laver l'orge à l'usage des brasseries.*)

Rudolf A. Baumgartner, Rosenheim, Bavaria, Germany, 25th August, 1890; 5 years.

Claim.—1st. A barley washing machine, consisting of a cylindrical perforated shell divided horizontally into several compartments communicating with each other and provided with adjustable feed inlet discharge and communicating orifices, the lower compartments having their inner shell surface provided with a brush surface, and vertical tubular shaft carrying brush drums on tubular arms, and horizontal brushes in the top or feed compartment, water supply pipes connected with the tubular shaft and with the cylindrical shell enclosing the compartments, means for driving the vertical tubular shaft, a conveyor for removing the cleaned grain, and a water trough, serving as a container for the machine, substantially as set forth. 2nd. The combination of the base *d'*, columns *d''*, dividing plates *d*, having orifices *e'*, *e*, *E'*, and perforated cylindrical shell *c'*, forming together a cylindrical perforated casing divided into compartments, a tubular shaft *E*, driven by a shaft *A*, and bevel gearing cylindrical brushes *c*, on tubular arms *a'*, secured to the shaft *E*, the brush surface *c'*, covering the cylindrical shell opposite the brush drums *c*, the horizontal brushes *b*, secured to the shaft *E*, adjustable feed *b'*, the supply pipes *a*, a conveyor for removing the grain, and a water trough *A'*, to hold the machine, substantially as set forth. 3rd. The combination of a perforated cylindrical casing divided into compartments by plates *d*, and supported on a plate *d'*, by columns *d''* and having feed and delivery, a tubular shaft *E*, brush surface *c'*, on the inner face of the shell, brush drums *c*, carried on tubular arms *a'*, secured to the shaft *E*, and brushes *b*, secured to said shaft, substantially as set forth.