

tube, so as to divide and conduct the beam of light passing from it and conduct it off in separate beams or to dispensers. 16th. The combination of the enclosed sliding tube U with one or more reflectors or reflecting prisms designed to reflect variable portions of a beam of light received at right angles to the said tube. 17th. The combination of an adjustable tube or carrier V with one or more reflectors or reflecting prisms, designed to reflect variable portions of a beam of light received at an angle with the said tube, and one or more light conducting and reflecting tubes. 18th. A light transmitting and conducting tube of glass externally coated with silver, in combination with and enclosed in a thick tubular covering or electro deposit of metal in which screw threads may be formed, or with which other devices may be joined for connecting in a continuous series by suitable couplings, two or more of the said glass conducting tubes thus separately enclosed. 19th. A light dispersing tube of glass, of tapering form, ground or corrugated on the inside, in combination with a light transmitting tube.

No. 13,949. Improvements on Machines for Stuffing Horse Collars. (*Perfectionnements aux machines à rembourrer les colliers de cheval.*)

James Newton, Ottawa, Ont., 9th January, 1882; for 5 years.

Claim.—1st. The cramping bar B with screw bolts and springs. 2nd. The half circles I I I.

No. 13,950. Improvements on Lamps. (*Perfectionnements aux lampes.*)

Stephen S. Newton, Binghamton, N. Y., U. S., 9th January, 1882; for 5 years.

Claim.—1st. In a safety-filling attachment for a lamp, the combination, with the safety valve tube G extending above the collar of the lamp, of an external filling chamber arranged between the lamp collar and the upper end of said safety tube, the lower part of the chamber in close proximity to the side of the tube. 2nd. In a lamp attachment, the combination of the filling chamber provided with opening e, the rotating collar D provided with an opening d and the filling tube E. 3rd. A filling chamber having its upper portion formed of the inversely curved plates C C', in combination with the rotating collar D, the part C being adapted to serve as a drip receptacle. 4th. The attachment for safety tube of a lamp made of asbestos cloth and adapted to receive a lamp wick.

No. 13,951. Improvements on Vaginal Syringes. (*Perfectionnements aux seringues vaginales.*)

Franz Wilhoft, New York, N. Y., U. S., 9th January, 1882; for 5 years.

Claim.—1st. A vaginal syringe made of soft rubber in one piece without tubing, valves, screw threads and extra nozzle, consisting of a bulb A and vaginal plug B. 2nd. The method of cleansing the vagina and applying fluids to its entire membrane by the use of a vaginal syringe composed of the bulb A, vaginal plug B, neck a, base b and opening c.

No. 13,952. Improvements in Car-Couplings. (*Perfectionnements aux accouplages des chars.*)

James F. Lewallen and Archie Woods, Nicholasville, Ky., U. S., 9th January, 1882; for 5 years.

Claim.—The combination, with a draw-bar arranged in open or notch seats f g and having the transverse stop or key h, of the longitudinal spring m bearing upon the upper surface of said draw-bar.

No. 13,953. Improvements on Churns. (*Perfectionnements aux barattes.*)

Hartley B. Gates, Stanstead, Que., 9th January, 1882; for 5 years.

Claim.—1st. The combination, with a dasher shaft having the block, the pitman and bevel gear wheel, of the pinion suitably journaled in frame work and provided with the annular grooves, and a locking device or latch to engage with either of said grooves. 2nd. The combination, with the gear wheel, its pitman and a dasher shaft having the block provided with the removable wrist-pin, of the air pump, its piston rod and the bevel gear pitman being connected to the block by the removable wrist-pin. 3rd. The combination, with the bevel gear, the pinion having the interiorly square hub, the pitman and the air pump secured to the churn lid and capable of forcing air to the interior of churn, of the dasher shaft having its upper portion squared and provided with the block to which the piston rod of the air pump and the pitman are connected by the removable wrist-pin. 4th. The combination, with the churn frame and the slide blocks having the slots, of the bevel gear wheel, its shaft and the exteriorly squared sleeve. 5th. The combination, with the bevel gear and its pitman, of the dasher shaft having the block, which latter is provided with the arm j a extending laterally therefrom and partially fitting one of the pieces of the slide blocks. 6th. The combination, with a churn body, of a lid closing the mouth of said churn body, and provided with an air pump and suitable air exits or ventilators. 7th. The combination, with a churn body, of a lid to close the mouth of said churn body and provided with the ventilating nozzles, each having an orifice and a cup provided with an orifice which may or may not register with the orifices in the nozzles. 8th. The combination, with the churn frame, of the slide blocks divided into the upper and lower sections, and the thumb-screws. 9th. The combination, with the operating mechanism and the lid, of the slide blocks connected to said lid. 10th. The combination, with the churn, its dasher operating mechanism and the churn lid, of the slide blocks divided into the upper and lower sections, said upper section connected to the churn lid. 11th. The dasher composed of the crucial arms provided with the projecting fingers.

No. 13,954. Improvements in Compounds for Plastering on Stone, Wood, Metal, &c. (*Perfectionnements aux agglomérés pour crépir sur pierre, bois, métaux, &c.*)

Réné L. M. de Prandières, Lyons, France, 9th January, 1882; for 15 years.

Resume.—Le procédé de fabrication des agglomérés de tous genres et des enduits sur pierre, bois, métaux, etc., qui porte essentiellement sur le durcissement rapide de la chaux, obtenu en l'imprégnant, après que la prise s'en est effectuée, d'une dissolution concentrée d'un mélange de sulfates métalliques avec des sulfates alcalins, ou alcalins terreux, ou de sulfates métalliques seuls.

No. 13,955. Cement. (*Ciment.*)

Robert G. Fraser, Halifax, N.S., 9th January, 1882; (Extension of Patent No. 6,946.)

No. 13,956. Improvements on Machines for Manufacturing Barbed Metallic Strand Fencing. (*Perfectionnements aux machines à confectionner les clôtures barbelées.*)

The Washburn and Moen Manufacturing Company, Worcester, Mass., (Assignee of Daniel C. Stover, Freeport, Ill.) U.S., 9th January, 1882; for 15 years.

Claim.—1st. A machine for cutting barbs from a strip of sheet metal at stated intervals, and feeding them to be automatically attached to a longitudinal fence strand consisting of a strip of sheet metal, or one or more wires, at stated intervals. 2nd. In a machine for manufacturing barbed fencing, the combination of mechanism for automatically feeding forward the longitudinal barb supporting strand, with mechanism for automatically feeding forward a metal barb strip at right angles, or nearly so, to the line of the main strand, mechanism for cutting or properly forming the barbs from the barb strip, and mechanism for attaching the sheet metal barbs after being cut and formed to the main strand. 3rd. The combination, with the head N, of the rocking lever N', of the combined cutters and benders g g having similar cutting edges, cutter h, die P, barb holder i and plate K. 4th. The cutters and benders g g, cutter h and die P provided with grooves to receive said cutters. 5th. The combination, with the head of a rocking lever carrying cutters i and benders g g, and cutter h, of the die block P provided with two parallel openings for the cutter, i, of the benders and opening h. 6th. The combination, with the head of a rocking lever carrying cutters i and benders, and a corresponding die to receive said cutters and benders, of block P, folders R R and plate R, over said folders. 7th. The combination, with the head of a rocking lever carrying a barb holder, of sliding folders R R and cams S S'. 8th. The combination, with the head of a rocking lever carrying cutters and benders, and die correspondingly grooved to receive them, of block P and springing part p. 9th. A pin g projecting from the die and resting upon a spring to raise the barb strips, so that they will pass over and straddle the main strip. 10th. The combination, with the block P and springing part p, of spring p' and locking nuts p p'. 11th. The combination, with the head of a rocking lever carrying cutters and a barb holder, of die P, block P, folder K having a groove o and projections o', and folder R having the projection o'. 12th. The combination, with the head of a rocking lever carrying cutters and benders g g, and die P correspondingly grooved to receive them, of the adjustable stripper U provided with fingers r. 13th. The bed plate E, feed rollers z, and guide z pivoted to the frame and carrying a removable cylindrical block Z, provided with a slot Z' and a guide y. 14th. The combination, with the head of a rocking lever carrying cutters and benders, of a die block having grooves to receive them and rolls adapted to feed a strip of metal under said cutters, the block P holding plate R, and adjustable guide R, where-by a second strip of metal is directed at right angle to the path of the first strip. 15th. The combination of rolls provided with flanges constructed to feed a strip of metal cutters and benders, a cutter and a die adapted to make a square cut on one edge of the strip, and a cut at an acute angle at the other edge, and bend the strip with a roll constructed and arranged to feed a second strip of metal across the path of the first strip, and with folding devices and means for operating as shown and described, whereby barbed metal strip fencing is made by a continuous rotation of the main shaft. 16th. The process of manufacturing barbed strand fencing, the barbs being cut and formed from strips of sheet metal and fed forward at stated intervals, to be attached to the longitudinal fence strand.

No. 13,957. Improvements in Churns.

(*Perfectionnements aux barattes.*)

Henry Van DeWater and Charles B. Nichols, Auburn, N.Y., U. S., 9th January, 1882; for 5 years.

Claim.—1st. In a churn the openings f f formed in the cover B, and the funnel blocks g g. 2nd. The revolving dasher C having beaters e e. 3rd. The arrangement and combination of box A with the cover B having the openings f f, funnel blocks g g and glass plate h. 4th. The arrangement and combination of the gear wheels D E, the revolving dasher C having the shaft c, with the beaters e e.

No. 13,958. Improvement on Injectors.

(*Perfectionnement des injecteurs.*)

The Hancock Inspirator Company, (Assignee of John T. Hancock.) Boston, Mass., U. S., 9th January, 1882; (Extension of Patent No. 7011.)

No. 13,959. Improvements in Candles.

(*Perfectionnements dans les bougies.*)

Richard F. W. Loper and Charles McKeone, Philadelphia, Penn., U. S., 9th January 1882; for 5 years.