

No. 26,941. Barbed Wire Fencing.*(Clôture en fil de fer Barbelé.)*

Arthur E. Goose, West Bromwich, Eng., 14th June, 1887; 5 years.

Claim.—The improved barb wire fencing, made up from short lengths of wire having sharpened or roughened ends, which are tied, threaded, or twisted into each other to form one continuous strand, substantially as herein set forth.

No. 26,942. Cultivator. (Scarificateur.)

John G. Trump, Richville, Mich., U.S., 14th June, 1887; 5 years.

Claim.—1st. In a cultivator, the arched main axle and the supporting wheels mounted thereon, in combination with the U-shaped main frame extending forward in a plane with the wheel-spindles, and having the standard *b* and the tongue adjustably secured in said standard and to the arch of the axle, substantially as herein described. 2nd. In a cultivator, the main frame, the main axle and the supporting wheels, in combination with the plates or bars *E* having rearwardly extending slotted arms *g*, the drag bars *F*, rods *h*, cross-bars *I*, levers *D* and standard *f*, *f*, substantially as herein described. 3rd. In combination with the frame *A*, plates *E* and the two series of drag-bars *F*, the centrally-placed drag-bar attachment consisting of a plate or bar *L*, having the slotted arms *l*, the drag-bars *K*, *K* and the slotted plates *5*, the said drag-bars being secured to both plates *E* and *L*, substantially as herein described. 4th. In a cultivator, the main frame, the axle and the supporting wheels, in combination with the bar *O*, the slotted standards *P*, the levers *D* and *Q*, the rods *8*, bars *I* and the drag-bars *F*, substantially as described. 5th. In a cultivator, the means described for holding the drag bars in their adjusted positions, consisting essentially of the slotted angular standards *P*, having the heels *9* the bent levers *Q* fulcrumed in said standards and the adjustable catches in, substantially as described. 6th. In a cultivator, the combination, with the drag bars, standards and cultivator teeth, of a weed-cutter consisting of the plates *12* secured to the standards, the shank *13*, blade *14* and set screw *15*, substantially as described.

No. 26,943. Watch Case. (Boîte de Montre.)

Charles F. Morrill, Boston, Mass., U.S., 14th June, 1887; 5 years.

Claim.—1st. A watch case centre, composed of an outer shell of a precious metal, and a solid core of a cheaper metal, as set forth. 2nd. A watch case centre, composed of a core or matrix of solid silver, and a covering of gold formed on the outer surface of said core, as set forth. 3rd. A watch case centre composed of a core or matrix of solid silver, and a covering of gold formed on and soldered to the outer surface of said core, as set forth. 4th. A watch case centre composed of a solid core of silver, having no internal annular groove provided with spring receiving recesses *t* in its inner surface, as set forth.

No. 26,944. Traction Engine.*(Machine Locomotive.)*

Horace Longhurst, Brampton, Ont., 14th June, 1887; 5 years.

Claim.—1st. In a traction engine, a stationary iron frame *A* rigidly fastened to axle brackets *E*, *E*, in combination with iron braces *G*, *G* fastened to frame *A*, *A*, substantially as and for the purpose herein and before set forth. 2nd. In a traction engine, a stationary iron frame *A*, *A*, in combination with iron shaft *C*, and boxes or bearings *D*, *D*, supporting shaft and gearing attached thereto, substantially as and for the purpose herein and before set forth. 3rd. In a traction engine, a stationary iron frame *A*, *A*, in combination with brackets *L*, *L*, supporting shaft *F* and worm wheel *G* used for operating steering chain, substantially as and for the purpose herein and before set forth.

No. 26,945. Thumb Insertion Machine.*(Machine à poser les pouces des gants.)*

Anna M. Arnold, (assignee of Satterlee Arnold,) Morristown, N.J., U.S., 14th June, 1887; 5 years.

Claim.—1st. In an apparatus for folding a former, adapted to form or shape the edge of the piece to be folded, combined with means, substantially as described, for turning and for holding and clamping the folded edge. 2nd. In an apparatus for folding a former, substantially as herein described, made in two parts, arranged to be held closed together while forming the edge of the piece to be folded, and to be opened or separated for removal or withdrawal. 3rd. In an apparatus for folding the former, as herein described, having an oval opening registering with a size plate of corresponding oval, and means for turning and clamping the material, substantially as shown. 4th. In an apparatus for folding the former consisting of two handles jointed at one end, and secured to a block pivotally supported on a frame, said handles carrying the former plates which register with a size plate secured to the same frame, substantially as shown. 5th. In an apparatus for folding a former adapted to shape, crease and form the edge to be folded, combined with shovels to crowd the edges of the material so formed over the edge of the former, and means, substantially as explained, to adjust the shovels to conform to varying thicknesses of fabric. 6th. The combination, with a former or apparatus for folding the edges of goods or fabrics, of a removable clamp plate adapted to secure the folded edge in position and transfer the work, substantially as and for the purposes set forth. 7th. The combination, with a folder having a former to shape and define the edge to be folded, of a clamp plate corresponding with the shape of the folder, and arranged to clamp and transfer the prepared piece from the folder to the sewing mechanism to be finally secured, substantially as explained. 8th. The herein described method of uniting pieces of goods or fabrics, the same consisting in, first, securing or clamping the prepared goods or pieces upon a portable but rigid plate, then, transferring the plate to the sewing machine, automatically guiding and feeding the plate and the goods thereon and stitching in the desired lines or curves. 9th. An automatic feeding device

substantially as herein described arranged to receive the detachable clamp plate on which the fabric or pieces are prepared and clamped and to automatically guide and feed the same to or in connection with a sewing machine. 10th. In a machine for sewing, an automatic feeding and guiding device, arranged substantially as described, to automatically feed and guide the prepared pieces of fabric in an oval path, for the purposes set forth. 11th. In a feeding mechanism for guiding and feeding fabrics to be sewed in a curved path, means, substantially as described, for changing from one path or line of sewing to another concentric or parallel with the first, for the objects named. 12th. In a feeding mechanism for guiding and feeding fabrics to be sewed in parallel paths, means, substantially as described, for adjusting or regulating the distance between the parallel lines or paths of sewing. 13th. In a machine for sewing, a feed lever combined with an adjustable fulcrum center, and means for reciprocating said lever, substantially as explained. 14th. The clamp for clamping and securing fabrics or pieces, consisting of a plate for supporting the pieces, fingers or clamp arms supported upon said plate, and cams bearing against the clamp arms and combined therewith to clamp the goods between the fingers and plates, substantially as shown and described. 15th. In combination, with the clamp plate the clamp arms having yielding fingers for pressing the fabric against the plate, substantially as explained. 16th. The clamp plate having a chamfered edge and clamp fingers, combined with said plate and arranged to press the goods or material against the edge, substantially as and for the purposes set forth. 17th. A clamp plate having an opening in the center, and one or more clamping arms arranged around said opening, substantially as shown and described. 18th. The herein described clamp plate made in two parts, viz: a supporting frame and a second plate attached to said frame, the second plate chamfered or beveled to an edge to afford the requisite strength and desired thin edge, for the purpose of admitting the clamped fabric near to the lower surface of the plate, as set forth. 19th. In combination with the clamp plate, the clamping arms pivotally supported upon the plate, and means for pressing the arms of the fingers thereon firmly against the fabric, which means also admit of the arms being turned back out of the way for removing the fabric, as set forth. 20th. The herein described clamp plate adapted to secure and clamp fabrics while being sewed, the same having an opening or edge of the form or curve desired to be stitched, and arranged for supporting the fabric close to the line of stitching as set forth. 21st. A sliding feed lever means for guiding and feeding the lever and a clamp plate adapted to clamp and hold the fabric the parts being held guided and fed by the sliding feed lever substantially as and for the purposes set forth. 22nd. In combination with a sliding feed lever arranged to carry the fabric to be sewed, a feed mechanism for feeding the sliding lever and a guide for guiding said lever substantially as shown and described. 23rd. In combination with a sliding feed lever holding the clamped fabric to be sewed, a feeding device for feeding said lever a guide for guiding said lever and means for changing the guiding from one path or line of sewing to another substantially as shown and described. 24th. A feed shaft moved by a pawl and ratchet, a sliding feed lever operated by the feed shaft and a friction pad applied and arranged to prevent movement of the shaft except as driven by the designed action of the ratchet the parts being combined substantially as and for the purposes set forth. 25th. In a machine for sewing, a pawl a ratchet plate or feed a ratchet shaft a sliding feed lever and a friction brake, combined and arranged to operate substantially as set forth. 26th. In a machine for sewing, a pawl and ratchet, feed in which the ratchet plate is non-circular in form and in which the ratchet teeth are located on longer and shorter radii, substantially as and for the purposes set forth. 27th. In a machine for sewing, the ratchet feed plate having removable pins applied thereto and combined therewith substantially as and for the purposes set forth.

No. 26,946. Harvester Reel.*(Râteau de Moissonneuse.)*

William Deering, (assignee of John F. Stewart), Chicago, Ill., U.S., 14th June, 1887; 5 years.

Claim.—1st. In a reel-sustaining and adjusting mechanism, the reel-sustaining post and the diagonal brace connected thereto, in combination with the standard *G* and its diagonal brace, and the reel-adjusting lever *E* jointed to the reel-bearing and to the standard, and provided with a diagonal brace, whereby the post is enabled to prevent the bagging of the reel and the lever enabled to prevent the swinging of the reel horizontally. 2nd. The horizontal rock-shaft, mounted in bearings on the frame, in combination with the reel-supporting standard, and the braces secured rigidly to the shaft and to each other, substantially as described. 3rd. The reel-sustaining post *B* and its diagonal brace, both hinged to the frame to swing backward and forward, in combination with the vertically-adjustable reel-bearing sustained by the said post, the standard *G* and its brace, both pivoted to the frame in rear of the post and its brace, the horizontal hand-lever *E* sustained by the standard and connected with the reel-shaft, and the brace *E* extending from said lever to the reel-shaft at a distance from the post *B*. 4th. In a harvester, the main standard pivoted to swing forward and backward and the reel supported thereon, in combination with the rear standard *G* also pivoted to swing backward and forward, the notched plate *I*, the locking device *H* mounted on the standard *G* and engaging the plate *I* to hold the standard in position, and a hand-lever *H* jointed to the reel-support and to the locking-slide *H*, as described, whereby the lever is adapted to lock and unlock the standard by which it is carried. 5th. In a reel adjusting mechanism, the pivoted standard *G*, its locking plate *H* and notched plate *I*, in combination with the reel-adjusting lever *E* pivoted to the plate *H*. 7th. In combination of the reel, the rock-shaft *B*, the braced reel-post *B* secured to the said rock-shaft, drum-shaft *A*, bracket *B* secured to the harvester-frame and provided with the bearings for said shaft and said rock-shaft, the gear-wheel *J* journaled on the rock-shaft, the pinion *J* mounted on the said shaft *A*, and means, substantially as described, for transmitting motion from the said gear-wheel *J* to the reel, substantially as set forth. 7th. The rock-shaft *B*, the swinging reel-post connected to the rock-shaft, the gear-wheel *J* and pinion *J* rotating on said rock-shaft, the bearing plate *L* secured to the rock-shaft, and the pinion *K* journaled on said