power device for baling presses, the combination, substantially as described, of the traverser, a pitman and swing arm constituting the *toggle, and a horse lever or sweep mounted upon an axis or pivot* separate from that of the swinging arm, and having two bearings adapted to carry the toggle across the centre from opposite sides, and a third or intermediate bearing adapted to carry the toggle nearly to the centre and then release it, as and for the purpose set forth. 4th. In a baling press, the combination, with traverser pitman and swinging arms, of the horse lever or sweep pivoted to one side of the axis of the swinging arms, having the intermediate bearing, adapted when the horse lever is moved to bear upon the said swinging arm, and travel toward and off *g*, *f*, the outer end of the same, and having also the two remote bearings, substantially as described. 5th. The combination, with the horse lever, the crank arms and their shafts or pivots respectively, of the removable bearing plates, substantially as described. 6th In a power device for baling presses, the combination, substantially as described, of the traverser, a pitman and a swinging arm constituting a toggle, and a horse lever or sweep having two bearings adapted to carry the toggle across the centre from opposite sides, and a third intermediate and removable bearing adapted to carry the toggle nearly to the centre and release it, substantially as set forth. 7th. The combination of the rock lever, the feed blade or blades, the connecting chain and the traverser, substantially as and for the purpose specified. 8th. The combination of the horse lever, and the power connection N1 passing around the connecting chain *x*, substantially as set forth. 9th. The combination of the horse lever and power connection N1 passing around the standard V, substantially as set forth. 10th. The combination of the rock lever blade or blades, and the weight attached thereto, with the press box and traverser of a baling press, as and for the purpose set forth. 11th, The combination of the power connection N1, pitman P, condensing heads and feed hopper, as and for the purpose set forth, 12th. In combination with a baling press feed orifice, a gravity feeder or feed device and a hopper provided with one or more movable condensing heads, as set forth. 13th. In a baling press, the double-acting pitman P, with the traverser press box feed orifice, in combination with a hopper movable condensing head and a gravity feeder, for the purpose set forth. 14th. In a baling press, the combination of a double acting pitman, a traverser, a press box, a feed orifice with a hopper and condenser and automatic feed device, whereby the loose material is condensed and passed from the hopper into the press box in front of the traverser and pitman, as set forth. 15th. The combination, with the traverser of a chamber, a condenser moving therein, and a feeding device operated by gravity to force the condensed charges into the press box, substantially as described. 16th In a continuous baling press, the combination, with the hopper, of double condensing heads operating therein, substantially as and for the purpose set forth. 17th. In a continuous baling press, and in combination with *the hopper thereof, double condensing heads and an intermediate* head or partition above the feed orifice, substantially as described. 18th. In a continuous baling press, and in combination with the hopper thereof, double condensing heads and a movable partition located above the feed orifice and between the condensing heads, substantially as described. 19th In a continuous press, in which there are imparted to the traverser two reciprocations at each complete movement of the horse lever from side to side, a hopper communicating with the feed opening and having double condensing heads, substantially as described. 20th. In a continuous press, in which there are imparted to the traverser two reciprocations at each complete movement of the horse lever from side to side, a hopper communicating with the feed opening, double condensing heads arranged to reciprocate within the hopper and a partition located between said condensing heads, substantially as described. 21st. The combination with the condensing hopper, the double condensing heads and the intermediate head or partition movable back and forth across the feed opening of the automatic feeder operating to force each charge of condensed material down through the feed opening, substantially as described. 22nd. The combination, with the condensing hopper, the double condensing heads and the intermediate head or partition movable back and forth across the feed opening, of the automatic feeder operating to force each charge of condensed material through the feed orifice and the double acting traverser, substantially as described.

No. 25,309. Machine for Removing Plumage from Feathers. (*Machine à Ebarber les Plumes.*)

George R. Holden, St. Thomas, Ont., 10th November, 1886; 5 years.

Claim.—1st. The overlapping and bevel disk-cutters *a*, *b*, arranged to revolve in opposite directions, substantially as described. 2nd. The combination of the spring L, with the shaft J for holding the cutting-edges of the disks *a*, *b*, substantially as specified. 3rd. The combination of the brackets D1, with the cylindrical arms J, K, and set screws *g*, *h* for adjusting the overlapping of the cutters *a*, *b*, substantially as specified. 4th. The combination of the adjustable supporting arms J, K, and set-screws *i*, *j*, with the shaft B and boxes C, D, supported thereon for adjusting the cutters *a*, *b* in the plane of contact, substantially as set forth. 5th. The combination and arrangement of the bearing boxes C, D, having the brackets D1 with the adjustable supporting arms J, K, adjustable arm I and their respective set-screws, spring L and post B, whereby the several adjustments may be obtained, substantially as described.

No. 25,310. Machine for Reducing Quills, Feathers, etc., to Fibre. (*Machine pour Réduire la Plume, etc., en Fibre.*)

George R. Holden, St. Thomas, Ont., 10th November, 1886; 5 years.

Claim.—1st. The disks *a*, *b*, having square or cutting edges, and passing and interlocking each other for reducing the material fed between them to fibre, substantially as specified. 2nd. The combination of the disks *a*, *b*, with the guides *c*, *d*, substantially as and for the purpose described. 3rd. The combination of the cutting disks *a*, *b*, with the scrapers *e*, substantially as set forth. 4th The combination and arrangement of the cutting disks *a*, *b*, and of the guides *c*, *d*, and scrapers *e*, substantially as specified. 5th. The combination and arrangement of the shaft D, hinged supports B1 and cutting *disks, a socket thereon, with the shaft C, fixed supports B, cutting*-disks *b* locked thereon, guides *c*, *d* and scrapers *e*, substantially as and for the purpose described.

No. 25,311. Beer Apparatus. (*Appareil à Bière.*)

George E. Collins, Albert J. Weatherhead and Edward H. Weatherhead, Cleveland, Ohio, U.S., 10th November, 1886; 5 years.

Claim.—1st. In beer apparatus, a casing carrying an air pump and a faucet adapted to be connected with one or more barrels at the same time, in combination with separate draught and vent tubes for each barrel, and hose connecting the draught and vent tubes with the faucet and pump respectively, substantially as set forth. 2nd. In beer apparatus, a beer pump and a faucet, with two or more openings through which to draw fluid, supported together on a casing with combined air and vent tubes, and hose connecting them with the air pumps and faucet, substantially as set forth. 3rd. In beer apparatus, the combination, with a casing, of a faucet having duplex openings, an air pump located by its side vent, and draught tubes connected with the pump and faucet respectively, and relief openings for the vent under control of the operator, whereby the air may be discharged without going to the barrel, substantially as set forth. 4th. In beer apparatus, a bung, having a neck above its head air, and vent tubes passing through the bung and hose connecting the tubes with an air pump and faucet respectively, substantially as set forth.

No. 25,312. Pie-Plate Lifter or Culinary Utensil. (*Manche de Tourtière ou Ustensile de Cuisine.*)

George H. Hollidge, Tacoma, W. T., U. S., 10th November, 1886; 5 years.

Claim.—The culinary utensil or implement hereinbefore described, consisting of the combination with a handle fitted at its front end with a blade or plate, of a holding plate pivoted to said handle in rear of its blade or plate and fitted on its upper surface, with a thumb operating knob or projection in advance of the pivotal connection of said holding-plate with said handle, substantially as described.

No. 25,313. Wheeled Stump and Stone Lifter and Conveyor. (*Charriot Arrache-Souche et Arrache-Pierre.*)

Joseph S. Kemp, Magog, Que., 10th November, 1886; 5 years.

Claim.—1st. The combination of the upright posts, two inside and two outside, the wheels with the cross-bar (or cross-bars) *p* and the body of the machine, substantially as and for the purpose hereinbefore set forth. 2nd. The combination of the shifting hoisting-gear and longitudinal bars, with the main body of the machine, substantially as and for the purpose hereinbefore set forth. 3rd. The combination, in a wheeled stump and stone lifter, of the longitudinal bar or bars with the straining rod and post in front of the machine, substantially as and for the purposes hereinbefore set forth.

No. 25,314. Siphon Oil Can.

(*Bidon à Huile à Siphon.*)

Thomas W. Lippincott, Rockford, Ill., U. S., 10th November, 1886; 5 years.

Claim.—The combination of the stopper B, and the two tubes C and F, provided respectively with flexible pipes D and G, the said tubes C and F placed in such position in reference to each other as to leave just enough space between them for the bodies of the flexible pipes to be compressed therein tightly, and to prevent the escape of vapour from the vessel A when required, substantially as described.

No. 25,315. Spring Link or Bar for Chains.

(*Chaînon ou Baton à Ressort pour Chaînes.*)

Albert W. Cox, Hastings, Neb., U.S., 10th November, 1886; 5 years.

Claim.—1st. In a holding device for chains, a link composed of continuous rod or wire bent to form a holding ring at one end, and a double looped spring at the other, in combination with a holding bar having a central elongated slot, substantially as and for the purpose described. 2nd. In a holding device for chains, a curved bar provided with an elongated slot, in combination with a link formed with a holding ring at one end, and a double looped spring at the other, substantially as and for the purpose set forth. 3rd In a holding device for chains, the combination, with a cross-bar having an elongated central opening, provided with an inwardly projecting lug, of a link formed with a holding ring at one end, and a double looped spring at the other, substantially as and for the purpose set forth. 4th. In a holding device for chains, the combination, with a curved cross-bar having an elongated central opening or slot, of a link formed from a single rod or wire bent to form a double looped spring at one end, and a holding at the other, substantially as and for the purpose set forth. 5th. In a holding device for chains, for combination with a curved cross-bar having an elongated central opening provided with an inwardly projecting lug, of a link formed from a single rod or wire bent to form a double looped spring at one end and a holding ring at the other, substantially as and for the purpose set forth. 6th. In a holding device for chains, a link formed from a single rod or wire first bent to form an ordinary plain link, then doubled over upon its centre and its ends united and formed into a holding ring, in combination with a cross-bar provided with a central elongated opening, substantially as and for the purpose set forth. 7th. In a holding device for chains, a link formed from a single rod or wire, first bent to form an ordinary link, which is then doubled over upon its centre, and its ends united and formed into a holding ring, in combination with a cross-bar having a central elongated opening provided with an inwardly projecting lug, substantially as and for the purpose described.