Claim.—1st. In a de ice for regulating the flow of fluids through pipes, in combination with a steam generator and pipes for conduct-ing said fluid, a valve body formed with a valve seat and provided with a valve proper for said seat, and a barrel or inclosure connected with the interior of said steam generator containing a movable piston or part, the same being connected with said valve, substantially as and for the purpose set forth. 2nd. In a device for regulating the flow of fluids through pipes, in combination with a steam generator and pipes for conducting said fluids, a valve-body formed with a valve seat and provided with a valve proper for said seat, and a bar-rel or inclosure connected with the interior of said steam generator containing a movable piston, the same being connected with said valve, the axes of said piston and valve being in the same straight line, substantially as shown and described. 3rd. In a device for re-gulating the flow of fluids through pipes, in combination with a steam generator and pipesfor conducting said fluids, a valve body formed with a valve seat and provided with a valve for said seat reaching out of said pistor, the same losi ure communicating with the interior of said generator containing a piston and a stopper for the outer open end of said barrel, a spiral spring within the bar-rel for said piston, the outer end of the latter being formed with a cavity in which the outer end of the latter being formed with a cavity in which the outer end of said valve enters, substantially as described. 4th. In a device for regulating the flow of fluids through pipes, in combination with a steam generator and pipes for said fluids, a valve body formed with a valve seat, and provided with a valve for said seat, a barrel communicating with the interior of said fluids, a valve body formed with a valve seat, and provided with a valve for said seat, a barrel communicating with the interior of said steam generator containing a movable piston formed with a cavity at its outer end in whi nutue, a vaive body formed with a vaive seat, and provided with a valve for said seat, a barrel communicating with the interior of said steam generator containing a movable piston formed with a cavity at its outer end in which to receive the outer end of said valve, and a spring placed with said cavity to bear against said valve, substan-tially as and forthe purpose set forth. 5th. In a device for regulating the flow of fluids through pipes, in combination with a steam gener-ator and pipes for conducting said fluids, a valve body formed with a valve seat and provided with a valve proper for said seat, and a bar-rel or inclosure connected with the interior of said steam generator containing a movable piston formed with a cavity at its outer end in which the end of said valve rests, a spring placed within said cavity and an adjuster for said valve, substantially as and for the purpose set forth. 6th. In a device for regulating the flow of fluids through pipes, in combination with a steam generator and pipes for conduct-ing said fluids, a barrel or inclosure connected with the steam space within said generator containing a movable piston, a lever for said piston to bear against a valve placed within said pipe, and a connect-ing rod for said valve and lever, substantially as shown and de-scribed.

# No. 26,385. Anti-Friction Roller for Wag-gon Reaches. (Rouleau anti-frottant d'avant-train de wagon.)

John Q. Grant, George T. Dell and Frank P. Secor, Longmont, Col., U.S., 4th April, 1887; 5 years.

U.S., 4th April, 1887; 5 years. Claim.-Ist. The combination of a waggon-reach, a pair of brackets notched so as to fit the said reach, and in which are journalled, so as to be free to rotate, a pair of rollers with the sway-bar, substantially as and for the purpose set forth. 2nd. The combination of the coup-ling-pole of a waggon, two brackets having notches adapted to fit the reach bolts securing said reach and brackets together, and a pair of double conical or centrally-swelled rollers journalled in said brackets with the slide-bar of a waggon, substantially as and for the purpose set forth. 3rd. The combination of a waggon-reach or coupling-pole, a pair of brackets secured to said reach or pole, and one or more double-conical or centrally-swelled rollers supported in said brackets with a slide or sway bar of a waggon, substantially as described. 4th. As a new article of manufacture, a pair of brackets adapted to be fitted to the reach of a waggon, and one or more double-conical or centrally-swelled rollers adapted to be journalled therein, substan-tially as described and for the purpose set forth.

### No. 26,386. Woven Fabric. (Tissu.)

David B. Kerr, Philadelphia, Penn., U. S., 4th April, 1887: 5 years. Claim.—The combination of two or more wefts, each of a different olor with figuring warp-threads, and a binder warp-thread between the two figuring warp-threads of each pair, as shown, described, and for the purpose specified.

### No. 26,387. Letter Blank and Envelope.

(Enveloppe-Papier à Lettre.)

Arthur Cox, Toronto, Ont., 4th April, 1887; 5 years.

Arthur Cox, Toronto, Ont., 4th April, 1887; 5 years. Claim.-1st. A sheet of paper folded in the form of a triangle, in combination with an envelope to contain the said sheet when folded, and having a slit made in it through which the apex of the triangle may protrude, substantially as and for the purpose specified. 2nd. A sheet of paper connected to and forming part of an envelope and folded in the form of a triangle, in combination with the said enve-lope havings a slit made in it through which the apex of the triangle may protrude, substantially as and for the purpose specified. 3rd. A sheet of paper connected to and forming part of an envelope, but made narrower than the said envelope and folded in the form of a triangle, in combination with the said envelope having a slit made in it through which the apex of the triangle may protrude, substan-tiolly as and for the purpose specified.

## No. 26,388. Punch. (Emporte-Pièce.)

Albert Burrowes, Toronto, Ont., 4th April, 1887; 5 years.

Claim-A punch A, having a portion of its wall a surrounding its cutting edge removed, substantially as and for the purpose specified.

No. 26,389. Machine for Making Lard Tab-lets. (Machine à Faire les Palettes de Saindoux.)

Henry H. Fearman, Hamilton, Ont., 4th April, 1887; 5 years.

Claim.—1st. A machine for making lard tablets, consisting of the combination of the sheet metal mould A, handle B, plunger C, rod a, substantially as and for the purpose specified. 2nd. The combination of the sheet metal mould A, handle B, plunger C, rod a, hole e, knob b and vent f, substantially as and for the purpose specified.

### No. 26,390. Sewing Machine.

### (Machine à Coudre.)

The Pentucket Variable Stitch Sewing Machine Company, Haverhill (assignee of Erastus Woodward, Somerville), Mass., U. S., 4th April, 1887 ; 5 years.

Claim.—Ist. The combination of the stitch-forming mechanism, the feeder, the arm and rock shuft carrying the feeder, the adjust-able mechanism for oscillating said rock shaft, a lever pivotally con-nected to the rock shaft, a movable fulcrum for said lever, a second lever by which said lever is supported, adjustable mechanism, sub-stantially as described, whereby said fulcrum may be either oscil-lated or held stationary, and adjustable mechanism, substantially as described for oscillating rock area for the approximation of the same set for ever by which said lever is supported, adjustable mechanism, sub-stantially as described, whereby said fulcrum may be either oscil-lated or held stationary, and adjustable mechanism, substantially as described, for oscillating said lever, as set forth. 2nd. The combina-tion of the stitch-forming mechanism, the feeder, the arm and rock-shaft carrying the feeder, the adjustable mechanism for oscillating the rock shaft, the lever E pivotally connected to the rock, the movable fulerum G for said lever, the lever K1 supporting said ful-rum, the adjustable fulerum L1 for said lever, as set forth. 3rd. The combination of the stitch-forming mechanism, the feeder, the arm and rock shaft carrying the feeder, the adjustable mechanism for oscillating said rock shaft, the lever E pivotally connected to the rock shaft, the fulerum G and its operating mechanism, the slide I to which the lower end of said lever is connected, the lever J pivot event shaft, the fulerum G and its operating mechanism, the slide I to which the lower end of said lever is connected, the lever J pivot event shaft, the fulerum G and its operating mechanism, the slide I to which the lower end of said lever is connected, the lever J pivot event shaft, the combination, with the needle shuttle auto-matic work feeder, and a tension device adapted to produce a con-stant tension on the thread, of automatic thread-holding and releasa-ing devices, substantially as described, whereby the needle-thread is held while the shuttle is entering the needle loop, and released while the work is being moved by the work feeder, as set forth. 5th. The thread grasping and releasing device, composed of the fixed plate which alternately covers and exposes said orifice, as set forth. 5th. The thread grasping and releasing device, and a tension device, and the feeder loosely pivoted thereto, of a frictional connection be-tween said arm or slide and the pivot of the feeder, whereby the lat-ter is prevented from swinging with too much freedom. substantially as set, forth

No. 26,391. Centrifugal Amalgamator for use in Connection with Crushed Ore, Sand, etc., containing Precious Metals. (Amalgamateur Centri-fuge pour le Minerai Broyé, le sable, etc., contenant des métaux précieux.)

William White, Mount Vernon, N. Y., U. S., 5th April, 1887; 5 years.

Claim-lst. The combination, with a pan, and means for revolv-ing the same, of a disk provided with riffs arranged to break joint, substantially as described. 2nd. The combination, with a pan, pro-vided with a discharge or fibe, of a disk arranged above the pan riffs secured to the disk and projecting downward therefron, said riffs being practically concentric with the axis of the pan, and ar-ranged so that they break joint, as and for the purpose stated.

# No. 26,392. Device for Trimming Cartridge Shells (Appareil pour Ebarber les En-Shells (Appareil po veloppes des Cartouches.)

Rollin White, Lowell, Mass., U.S., 5th April, 1887; 5 years.

Rollin White, Lowell, Mass., U.S., 5th April, 1887; 5 years. Claim.—1st. The combination of a die, provided with an annular knife surrounding the die opening, a punch having a conical lower end, provided with splitting knives and a trimming punch, substan-tially as described. 2nd. The combination of a die, provided with an annular knife surrounding the die opening, a splitting punch, pro-vided with splitting knives, and a trimming-punch having an annular groove on its lower surface, as and for the purpose specified. 3rd. The combination of a trimming-die, provided with an annular knife surrounding the die-opening, and a pnneh adapted to press the open end of a shell upon said knife, substantially as set forth. 4th. The combination of a trimming-punch, having a groove in its lower sur-face, and a trimming-die having a knife surrounding the die-open-ing. 5th. The combination of a die and a punch, said punch having a conical enlargement above the cylindrical portion, or downwardly-projecting teat, as and for the purpose specified. 6th. The combina-tion of a die and a punch, having radial conical-shaped knives, and a cylindrical portion or teat projecting below said knives, as and for the purpose specified. 7th. The splitting-punch, having its lower end tapered or bevelled off. Am provided with Tradial conical-shaped knives, as and for the purpose specified. 8th. The combina-tion of a the knife, upon which surface extended laterally beyond the part which forms the anvil, and a trimming-die having a surface without the knife, upon which surface the extended surface of the punch may rest, as and for the purpose specified.