

the pasting disc carried by a shaft, of a paste box suspended to said shaft, and a transfer roller supported loosely in bearings carried by said box, substantially as described. 8th. The combination with the pasting and edge folding devices arranged to operate upon a continuous sheet, of a roll carrying clamps for seizing and holding the transverse folds of said sheet, and a shaft carrying a cutter for severing said sheet beyond the clamped portion, substantially as set forth. 9th. The combination with a roll provided with independent sheet clamps, of a shaft carrying a folding blade and cutter, and a separate shaft carrying an independent folding blade, substantially as set forth. 10th. The combination of the roll provided with independent clamps, of a roll carrying a folding blade arranged to fold an intervening strip of paper into one of the clamps, a second folding blade whereby the paper is folded into the other clamp, and a cutter arranged to sever the sheet beyond the point where it is seized by the second clamp, substantially as set forth. 11th. The combination of a shaft carrying a clamping device, of a spring arm connected with said clamping device, and a contact piece arranged to be struck by said arm as the shaft revolves, substantially as set forth. 12th. The combination with the roll carrying a rocking rod provided with a clamping blade, of a bent flexible arm extending from said rod, a contact piece, and a spring connected with said rod to rock it in one direction, substantially as set forth. 13th. The combination with the shafts carrying rolls G and H, of a clamp carried by one of the rolls and provided with a curved yielding arm arranged to contact with the shaft of the opposite roll, substantially as set forth. 14th. The combination with the roll G, carrying a cutter and folder blade, of a presser roll carrying two rock rods, each provided with blades co-acting with clamping faces of the roll, springs turning said rods in one direction, and yielding arms extending from the rod to contact with stationary bearings turn the rods in the opposite direction, substantially as set forth. 15th. The combination with the shafts 24, 25 and 26, of the clamps carried by one shaft, a cutter and folder blade carried by the other, and a folder blade and gummer carried by the remaining shaft, substantially as set forth. 16th. The combination with the envelope folding devices, and with the gummer for applying the gum to the flap, of a reverser for receiving the envelope after the flap is gummed, and for carrying it to another position and rolls arranged to partially bend down the flap and to receive the envelope from the reverser, substantially as set forth. 17th. The combination with the rolls feeding forward the gummed envelope, of a vibrating conductor and a pair of rolls for partially turning the flap of the envelope, and devices for reciprocating said conductor to carry it from the feeding to the turning rolls, substantially as set forth. 18th. The combination with the folding and creasing flap pasting and gumming devices, and a reverser 61, 62, 63, of rolls arranged to receive the envelope between them, but separated to prevent the flap from being pressed against the body of the envelope, substantially as set forth. 19th. The combination with the envelope forming and pasting and gumming devices, of a type cylinder, an impression roll having a recess to receive the upturned flap of the envelope and separated rolls 38, 41 for bending inward the flap, substantially as set forth. 20th. The combination with the impression roll and type cylinder and with the envelope forming the gumming devices, of the guide rolls 36, 37, carrying bands 60, arranged to press the edges of the envelopes against the impression roll and to guide the envelopes between said roll and the type cylinder, substantially as and for the purpose set forth. 21st. The combination with the devices for applying the gum transversely to the strip of a suitable heater 2, fig. 11, substantially as set forth. 22nd. The method and means of separating the overlapping articles by means of rolls N, O, rotating more rapidly than the movement of the feeding support for said articles, substantially as set forth in connection with fig. 15. 23rd. The construction of the envelope with its returned folds when the ends of the latter are pasted against the flap as in fig. 1, or down upon the back as in fig. 14.

No. 40,829. Type-Writing Machine. (*Clavigraph*.)

The Type-Writing Machine Company, assignee of Samuel Cook Hurlbut, all of Hartford, Connecticut, U.S.A., 2nd November, 1892; 6 years.

Claim.—1st. A printing machine of the character substantially as set forth, comprising a movable and suitably guided carriage or support, a rotatable type drum carried on a frame which is spring supported and vertically movable on said carriage, a vertically movable and rotatable plunger shaft having an engagement with said drum carrying frame, the same being geared to the type drum thereon, whereby on the turning of the said shaft the drum may be turned, for the purpose set forth. 2nd. A printing machine of the character substantially as set forth, comprising a movable and suitably guided carriage or support, a rotatable type drum carried on a frame which is spring supported and vertically movable on said carriage, a vertically movable and rotatable plunger shaft having an engagement with said type carrying frame and geared to the type drum thereof and provided with an indicating dial and pointer, and also having devices acting in conjunction with said drum frame and said carriage for ensuring on each depression of said plunger and drum frame a forward movement of the carriage, for the purpose set forth. 3rd. A printing machine comprising therein in co-operative arrangement the following instrumentalities, viz.:—A suitable carriage and wheels for supporting same, a frame, spring supported and vertically

movable on said carriage, a type drum rotatable on said frame and a gear mounted on the arbor of said drum, a vertical plunger shaft fixed for rotation in said vertically movable frame and provided at one end with a handle knob and at its other with a gear meshing with said drum gear, substantially as described. 4th. A printing machine comprising therein in co-operative arrangement the following instrumentalities, viz.:—A suitable carriage and wheels for supporting same, a frame, spring supported and vertically movable on said carriage, a type drum rotatable on said frame and a gear mounted on the arbor of said drum, a vertical plunger shaft fixed for rotation in said vertically movable frame and provided at one end with a handle knob and at its other with a gear meshing with said drum gear, and a mechanism actuated and controlled by the movement of said frame and acting upon one of the carriage supporting wheels to propel same, for the purpose set forth. 5th. A printing machine comprising therein the following instrumentalities:—A carriage and wheels for supporting same, a frame, spring supported and vertically movable on said carriage, a type drum rotatable on said frame and a gear mounted on the arbor of said drum, an index pointer and a plunger shaft fixed for rotation on said vertically movable frame and provided at one end with a handle knob, at its other with a gear wheel meshing with said drum gear, and having fixed thereon a dial plate with an indication of characters thereon corresponding with and in the same relative arrangement as those of said type drum, and a mechanism actuated and controlled by the movement of said frame and acting upon one of the carriage supporting wheels, for the purpose set forth. 6th. A printing machine, consisting of a carriage comprising a horizontal platform and opposing pedestals each having journal bearings, and rearward and transverse portions, two side wheels mounted in said journals and a roller centrally mounted on and supporting said rear portion of the carriage, a frame spring supported and vertically movable on said carriage, a type drum rotatable on said frame and a gear mounted on the arbor of said drum, a vertical plunger shaft fixed for rotation in said vertically movable frame and provided at one end with a handle knob and at its other with a gear meshing with said drum gear, substantially as described. 7th. In a printing machine, the combination, with the carriage and the supporting side wheels one or both provided with the teeth or pins 47, and a rear wheel or roller, of the frame C, spring supported and vertically movable on said carriage, and one or more wheel rotating devices on one or both side portions of said frame and adapted to operate on said wheel pins, substantially as and for the purpose described. 8th. In a printing machine, the combination, with the carriage and the supporting side wheels, one or both provided with the teeth or pins 47, and a rear wheel or roller, of the frame C, spring supported and vertically movable on said carriage, one or more wheel rotating devices on one or both portions of said frame and adapted to operate on said wheel pins, and a spring click for each pallet, substantially as and for the purpose described. 9th. The combination, with the wheeled carriage B, of the frame C, spring supported and vertically movable thereon, having a rotatable type drum and a gear mounted on the axle thereof, a vertical plunger shaft fixed for rotation in said vertically movable frame provided at one end with a handle knob and at its other with a gear meshing with said drum gear, and a spring arm by one end attached on said frame and an inking disk centrally pivoted on the other end of said spring arm and bearing eccentrically on the periphery of the type drum, substantially as described. 10th. In a printing machine, substantially as described, the combination, with the vertically movable frame C, provided with a guide way, of an apertured guard plate *o*, having a stem fitting in said guide way and a spring for maintaining said guard depressed and an abutment to limit the downward depression of said guard, for the purpose set forth. 11th. In a printing machine, substantially as described, the combination, with one of the legs *i*, of the vertically movable frame and the tubular guide way 42, thereon provided with the slot 43, of the guard comprising the apertured plate *o*, and the stem 40, which plays through said tubular guide way and is provided with the stud 44, movable in said slot, and the spring 45, as described and shown. 12th. The combination, with the rear extension of the frame B, provided with the vertical bearing socket 12, and the pin 17, of the stirrup frame having the perforated extension 15, and the spindle 10, a roller carried by said stirrup frame and the spring applied on said spindle, and all substantially as and for the purpose described.

No. 40,830. Pipe Organ. (*Orgue à tuyau*.)

Jackson Pipe Organ Company, assignee of Richard Walter Jackson, all of Chester, Illinois, U.S.A., 2nd November, 1892; 6 years.

Claim.—1st. An octave coupler, consisting of a set of pipes having the octaves of any pipe grouped together, with air communication between the adjoining octaves, whereby when any pipe is caused to speak its octave or octaves will also respond. 2nd. An octave coupler, consisting of a set of pipes having air communication between the adjoining octaves, and partitions for preventing any other pipes than the said octaves from responding. 3rd. An octave coupler, consisting of a set of pipes having the octaves of any pipe grouped together, with diagonal grooves between the adjoining octaves, whereby when any pipe is caused to speak its octave will respond. 4th. An octave coupler, consisting of a set of pipes having the octaves of any pipe grouped together, with diagonal grooves between the adjoining octaves, and means for preventing any other