No. 833,742. PATENTED OCT. 23, 1906.

H. E. JOHNSON.

STAMPING DEVICE.

APPLICATION FILED MAR. 28, 1906.

2 SHEETS—SHEET 1.

Fig. 1.

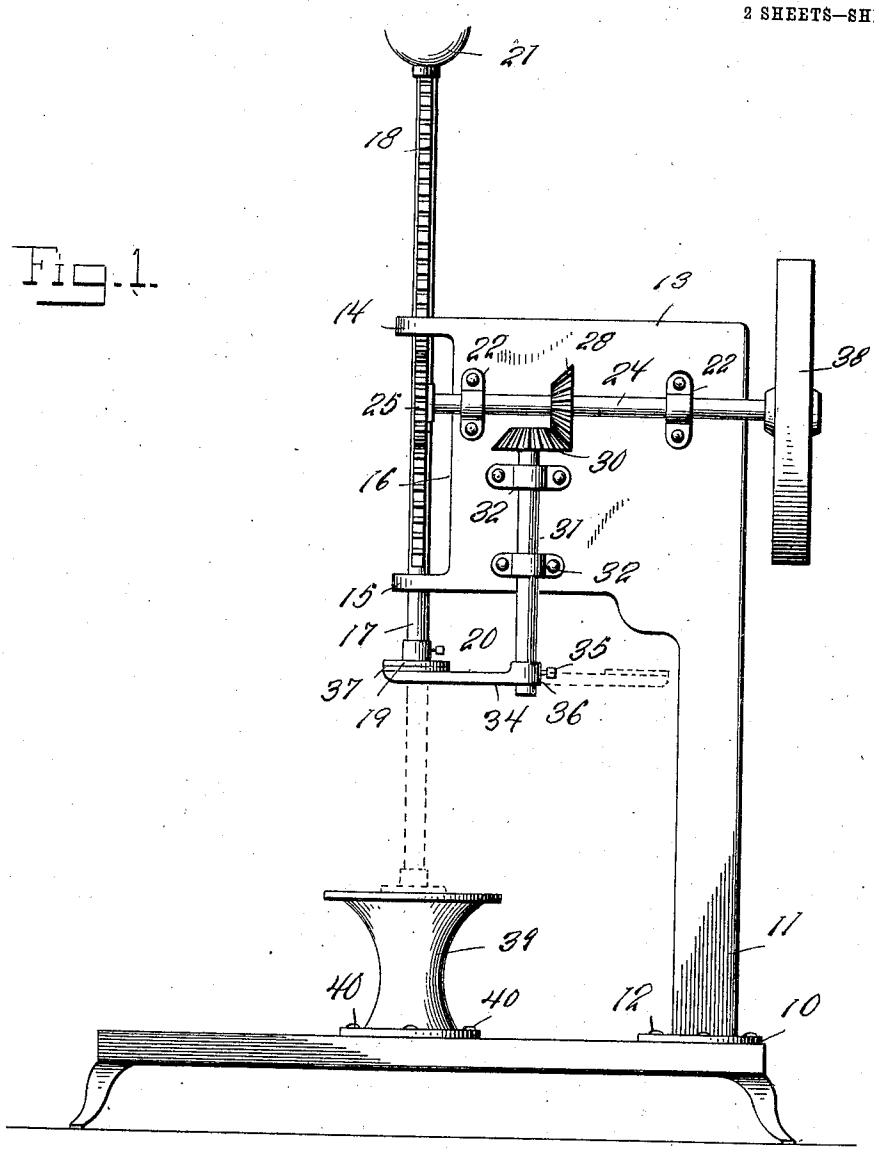
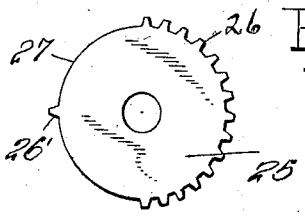


Fig. 4.



Witnesses
C. R. Thomas
K. C. Jones

Inventor
H. E. Johnson
By Brandlee & Brandlee
Attorneys

THE NORRIS PETERS CO., WASHINGTON, D. C.

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2 SHEETS—SHEET 2.

Fig. 2.

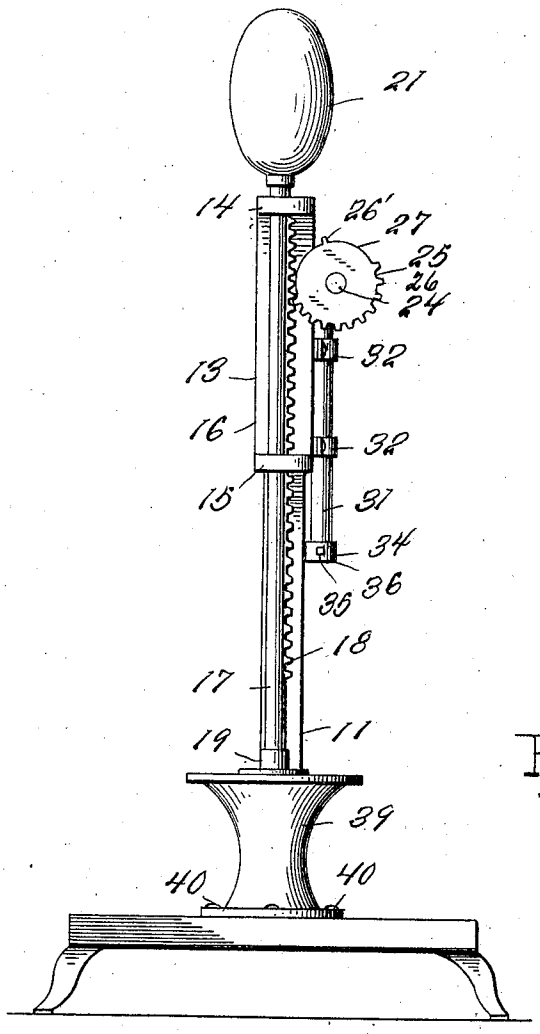


Fig. 3.

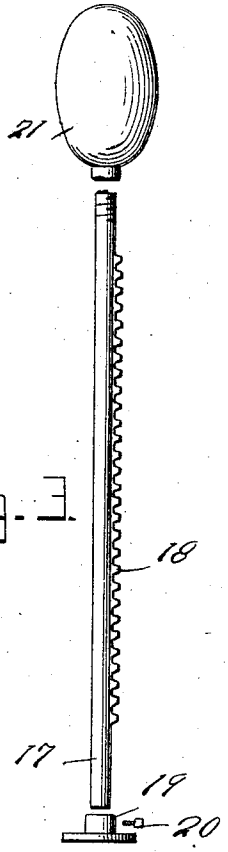
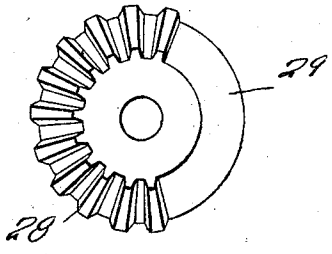


Fig. 5.



Witnesses

G. R. Thomas

J. C. Jones

Inventor

H. E. Johnson

By Benedict & Coffin

Attorneys

THE NORRIS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

HADFIELD E. JOHNSON, OF AXEL, MINNESOTA.

STAMPING DEVICE.

No. 833,742. Specification of Letters Patent. Patented Oct. 23, 1906.

Application filed March 28, 1906. Serial No. 308,535.

To all whom it may concern:

Be it known that I, HADFIELD E. JOHNSON, a citizen of the United States, residing at Axel, in the county of Ottertail, State of Minnesota, have invented certain new and useful Improvements in Stamping Devices; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in stamping devices, and has for its object to provide a machine for stamping or canceling letters in combination with an automatic device for inking the stamp.

Further improvements consist in the construction and combination of parts to be hereinafter described, as specifically pointed out in the claims.

Briefly described, the machine comprises a base-plate having a stamp-pad attached thereto and an upright connected with the base-plate and provided with an extension in which the stamping-rod and inking device are journaled and likewise carrying the operating devices for said rod and pad.

The invention will be more clearly understood from the following detailed description, taken in connection with the annexed drawings, in which the same parts are referred to by like numerals in the several views, in which—

Figure 1 is a front elevation. Fig. 2 is a side elevation of a stamping-machine constructed in accordance with this invention, and Figs. 3, 4, and 5 are respectively detail views showing a side elevation of the stamp-rod and top plan views of the mutilated pinion for operating the stamp-rod and the mutilated gear for driving the inking device.

In the drawings, 10 designates the base-plate of the machine, and 11 an upright attached to the upper surface of the base-plate by bolts 12, as shown in Fig. 1. The base-plate may be supported above the surface of the floor or table upon which it is to be used by suitable feet, as shown. The upper portion of the upright 11 is provided with the extension 13, which forms a frame in which the stamp-rod and inking-pad are carried and in which the driving means therefor are likewise journaled.

On the outer end of the extension 13 are formed shoulders 14 and 15, which are provided by means of the cut-away portion 16 of the extension 13. The extension 13, inasmuch as it forms the frame proper of the machine, will be hereinafter designated as such for brevity. Shoulders 14 and 15 are provided with a pair of alining openings through which the stamping-rod 17 is adapted to move vertically. A rack 18 is formed integrally on one surface of the rod 17, and it is understood that the opening in shoulder 15 of the frame is formed to likewise admit the rack portion of the rod 17. A stamp 19 is provided at the lower end of rod 17, being removably attached thereto by a set-screw 20. The under surface of stamp 19 is suitably engraved as desired.

Attached to the upper end of rod 17 is a weight 21, adapted to normally lower said rod. Weight 21 may be attached to rod 17 in any desired manner—as, for instance, by providing a collar with an internally-screw-threaded opening into which the correspondingly-threaded end of the rod fits. Frame 13 is provided at some distance below its upper edge with a pair of brackets 22, forming bearings in which is journaled a shaft 24, carrying at its outer end a pinion 25. The teeth of the pinion 25 extend only half-way around the operating-face of said pinion, the remaining face being approximately plain and provided with a single tooth 26′, located on the plain surface approximately midway between the ends thereof, as shown in Fig. 4. Shaft 24 is also provided with a gear 28, slightly smaller than pinion 25 and likewise provided with a plain or mutilated portion 29, as shown in Figs. 1 and 5. Both pinion 25 and gear 28 are fast upon the shaft 24, and the plain surface of the former is referred to by numeral 27.

Meshing with a pinion 28 is a gear 30, fast upon a second shaft 31, carried by the frame 13 and located at right angles to shaft 24. Shaft 31 is journaled in bearings carried by the frame in 32. The lower end of shaft 31 is provided with an arm 34, having at one end an enlarged bearing portion 36, through which shaft 31 passes and having at its other end an inking-pad 37. Arm 34 is adjusted and fastened upon its shaft by means of a set-screw 35. Shaft 24 carries at its outer end a driving-pulley 38, connected to any preferred source of power by means of a belt. (Not shown.)

Attached to the base-plate 10 by means of bolts 40 or other preferred construction is a stamp-pad 39, which is located directly be-

neath stamp-rod 17 and against which said stamp-rod is adapted to contact.

The operation of the machine is as follows: The parts of the machine are assembled with the ink-pad 37 in position beneath the stamp 19, the under surface of said stamp resting upon the pad. In this position the plain portion 29 of gear 28 is in contact with gear 30, and the stamp-rod 17 is in its upper position, with the teeth 26 of pinion 25 in contact with the teeth of the rack portion 18 of said rod. When the power is applied to shaft 24 through its driving-wheel 38, the ink-pad will remain stationary beneath the stamping-rod, owing to the plain surface on gear 28, and the parts will remain in such position until the teeth portion of the gear comes in contact with gear 30, when shaft 31 will again be rotated. During the rotation of pinion 25, when the teeth 26 thereon are moved out of engagement with the teeth of the rack portion 18 of the stamping-rod, the tendency of the rod is to fall, owing to the downward pressure of its weight 21. Such movement is, however, prevented by the position of the ink-pad beneath the stamp until tooth 26′ on the pinion moves into contact with rack 18 and rod 17 is given a slight upward movement. At this point the rotation of shaft 31 commences and the ink-pad is moved away from its position beneath the stamp and into the position shown in dotted lines in Fig. 1, thus allowing the stamp-rod and stamp to fall and strike upon stamp-pad 39, upon which the letter to be stamped or canceled is placed. The teeth 26 on the pinion 25 again come into contact with the rack on the stamp-rod and the same is carried up thereby when the ink-pad is again swung into its position beneath the stamp and the above-described movements repeated.

Slight changes and modifications may be made within the scope of the appended claims without departing from the spirit of the invention, and I therefore do not desire to be limited to the exact construction shown and described.

What is claimed is—

1. A stamping device comprising, in combination, a frame; a vertically-disposed stamp-rod movable therein; a stamp secured to the lower end of said rod; an inking-pad and an arm for carrying the same; and means rotatably mounted in said frame and connected with said rod and arm, said means being adapted to simultaneously impart, during its continuous rotation, a vertical reciprocatory movement to said rod and a lateral rotary movement to said arm, to move said pad into and out of contact with said stamp.

2. A stamping device comprising, in combination, a frame; a vertically-disposed stamp-rod movable therein; a stamp attached to the lower end of said rod; a main shaft carried in said frame; means for rotating said shaft; an inking-pad and an arm for carrying the same; and connections between said rod and shaft and said arm and shaft for imparting, during the continuous rotation of the latter, an upward movement to said rod, a lateral rotary movement to said arm, to move said pad beneath said rod to support said rod in such raised position and to ink said stamp, and a further lateral rotary movement to said arm, to withdraw said pad from contact with said stamp and allow said rod to drop.

3. A stamping device comprising in combination a frame; a stamp-rod movable in said frame; a stamp attached to the lower end of said stamp-rod; an inking-pad; an arm for carrying said inking-pad; a main shaft carried in said frame; means for rotating said shaft and connections between said shaft and said stamp-rod, and between said shaft and said arm to simultaneously impart during the continuous rotation of said shaft a reciprocating movement to said stamp-rod; and a lateral rotary movement to said arm to move said inking-pad into and out of contact with said stamp.

4. An inking device comprising in combination a frame; a stamp-rod movable in said frame; a rack formed on said stamp-rod; a stamp attached to the lower end of said stamp-rod; an inking-pad, and an arm for carrying said inking-pad; a main shaft carried in said frame; a multilated pinion carried on one end of said shaft and meshing with said rack to impart an intermittent vertical reciprocation to said stamp-rod; and connections between said shaft and said arm to impart a lateral rotary movement to said arm to carry said inking-pad into and out of contact with said stamp.

5. An inking device comprising in combination a frame; a stamp-rod movable in said frame; a stamp attached to the lower end of said stamp-rod; a main shaft carried in said frame; a mutilated gear on said main shaft; a second shaft journaled in said frame, said last-mentioned shaft being located at right angles to said main shaft; a gear on the upper end of the second shaft and meshing with the mutilated gear on said main shaft; an arm on the lower end of said second shaft; and an inking-pad carried by said arm; and connections between said main shaft and said stamp-rod for reciprocating said stamp-rod, and means to rotate said main shaft.

6. An inking device comprising in combination a frame; a stamping-rod carried in said frame; a stamp attached to the lower end of said stamp-rod; a rack formed on said stamp-rod; a main shaft journaled in said frame; a mutilated pinion upon one end of said shaft and meshing with said rack; and a mutilated gear upon said shaft; a second shaft journaled in said frame at right angles

to said main shaft; a gear on the upper end of said second shaft and meshing with the mutilated gear on the main shaft; an arm attached to the lower end of said second shaft, and an inking-pad carried by said arm; and a drive-wheel for rotating said main shaft to simultaneously reciprocate said stamp-rod and rotate said arm to carry the inking-pad into and out of contact with said stamp.

In testimony whereof I affix my signature in presence of two witnesses.

HADFIELD E. JOHNSON.

Witnesses:

JOHN KRON,

OLE. A. HOLM.