C. C. BROWN.

CAN STAMPING MACHINE.

APPLICATION FILED NOV. 23, 1907

914,234.

Patented Mar. 2, 1909.

2 SHEETS—SHEET 1.

Fig. 2.

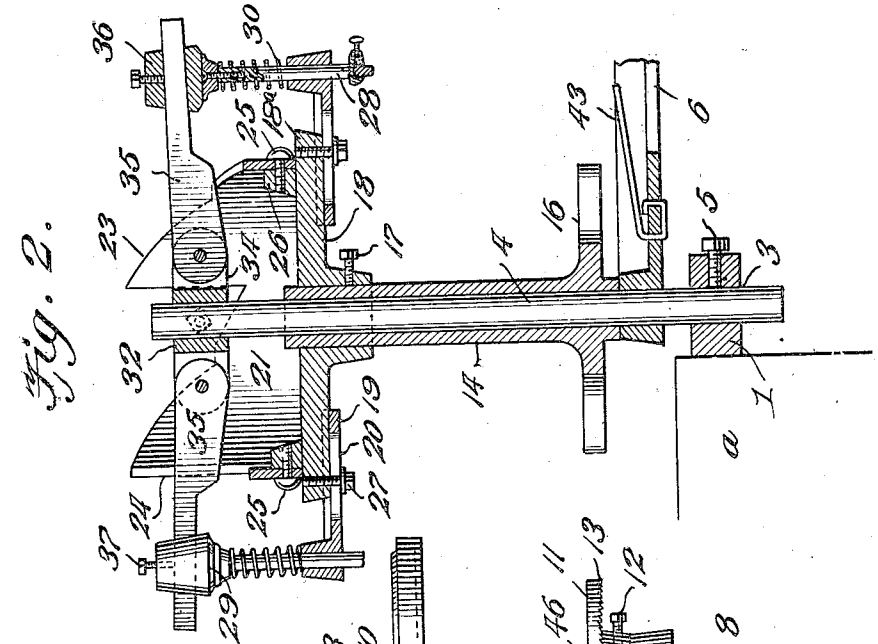
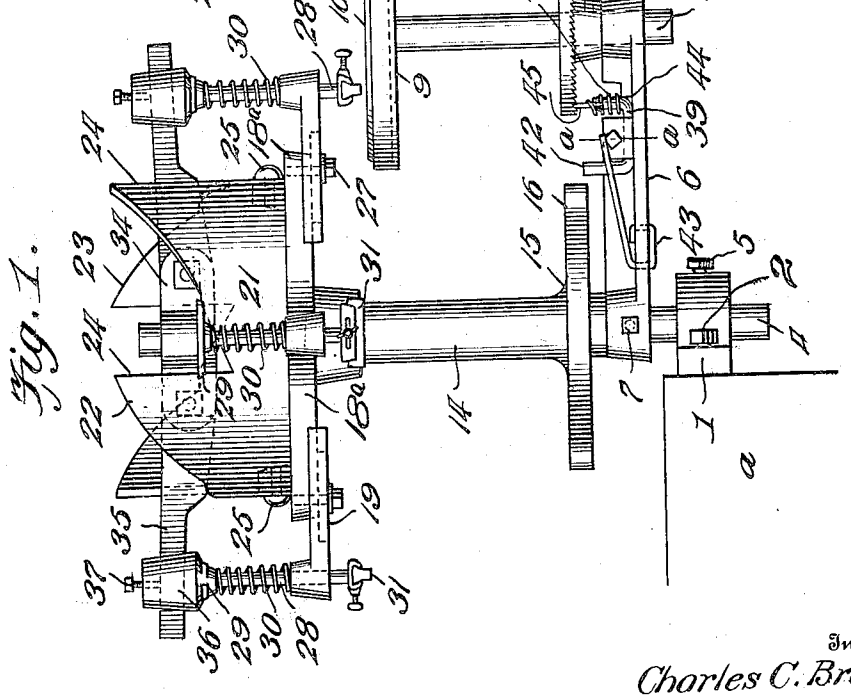


Fig. 1.



Witnesses

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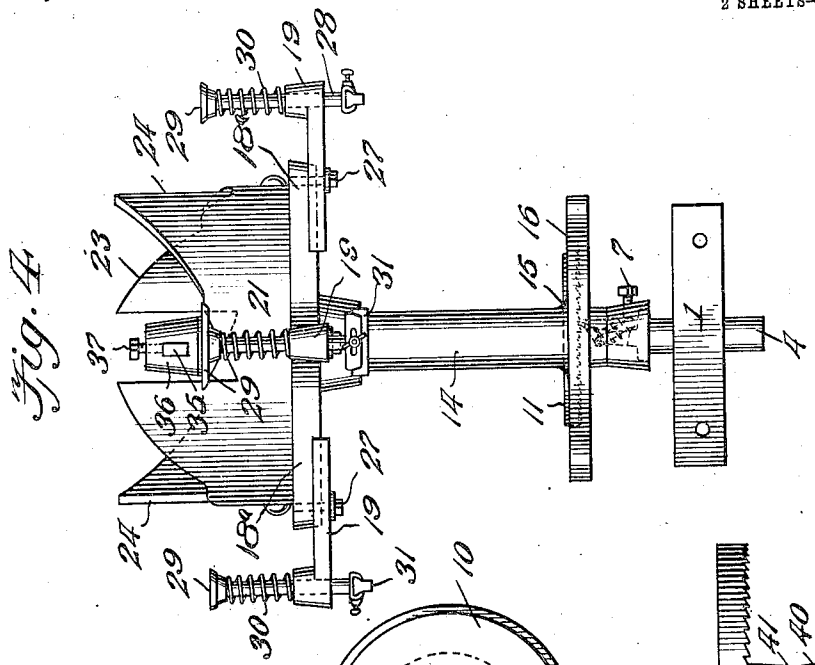


Fig. 4.

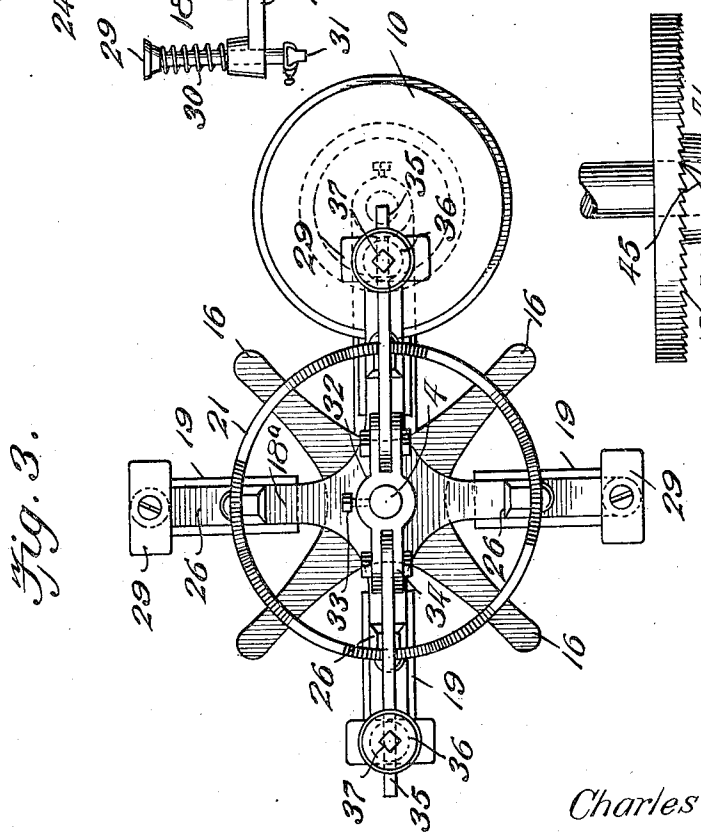


Fig. 3.

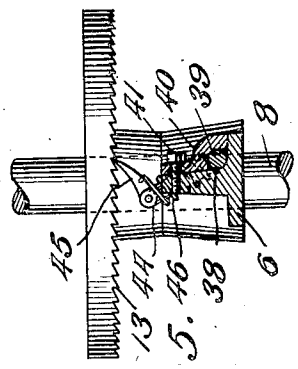


Fig. 5.

Witnesses

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# UNITED STATES PATENT OFFICE.

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## CAN-STAMPING MACHINE.

No. 914,234. Specification of Letters Patent. Patented March 2, 1909.

Application filed November 23, 1907. Serial No. 403,503.

*To all whom it may concern:*

Be it known that I, CHARLES C. BROWN, a citizen of the United States, residing at Le Roy, in the county of Genesee and State of New York, have invented new and useful Improvements in Can-Stamping Machines, of which the following is a specification.

This invention is an improved machine for stamping dates, identifying marks, labels or the like on cans containing vegetables, fruits or other articles and it consists in the construction, combination and arrangement of devices hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of a can stamping machine embodying this invention. Fig. 2 is a vertical central sectional view of the same. Fig. 3 is a top plan view of the same. Fig. 4 is an elevation of the same at right angles to Fig. 1. Fig. 5 is a detail sectional view on the plane indicated by the line *a*—*a* of Fig. 1.

A block 1 constituting a base is provided, which may be secured to one side of a table, stand, counter, or other object *a* by means of the screws or other suitable devices 2. The said base block is provided with a vertical central opening 3 in which is placed the lower end of a vertical shaft 4. The same is firmly clamped to the said base block as by means of a set screw 5. A bracket 6 has its inner end provided with an opening through which the shaft 4 extends and is secured to the said shaft by means of a set screw 7. At the outer end of the said bracket is a bearing having a vertically disposed shaft 8 which is provided at its upper end with a circular head 9 which carries an inking pad 10. On the said shaft, at a suitable distance from its lower end, is secured a disk 11 by means of a set screw 12 which operates in a threaded opening in its hub portion and the said disk is provided on its under side with ratchet teeth 13 so that the said disk constitutes in effect a ratchet gear.

A vertically disposed revoluble tubular sleeve 14 is mounted on the shaft 4 and bears on the inner portion of the bracket 6. At the lower end of the said sleeve is a spider 15 having a plurality of radially extending arms 16 with which the successive cans engage as they are fed through the machine so as to rotate the spider and sleeve. A head 18 has a central opening through which the upper portion of the sleeve 14 extends and has a depending hub portion provided with a set screw 17 which clamps said head to said sleeve to rotate therewith. On the upper side of said head and disposed concentrically with reference to the shaft 4 is a cylindrical cam element 21 which has a plurality of cam shoulders 22 each of which has an inclined upper edge 23 and a vertical edge 24. The said cam element is secured on said head by means of screws 25 which engage threaded openings in lugs 26 which project from the upper side of said head, thereby said cam element is caused to revolve with the said head. The latter is formed with a plurality of radial arms $18^a$ each of which has a vertically threaded opening near its outer end. Radially disposed extension arms 19 are provided which are longitudinally recessed in their upper sides to receive the arms $18^a$, bear under said arms and are provided with longitudinal slots 20. Set screws 27 operate in said head and in the threaded openings near the outer ends of the arms $18^a$ and serve to adjustably secure said extension arms to the arms of the head and enable such extension arms to be adjusted radially so that their outer ends may be projected to any desired extent from the center of the said head. Plunger rods 28 operate in vertical openings in the outer ends of the extension arms 19. Each of the said plunger rods has an enlarged head 29 at its upper end. Springs 30 are placed on said plunger rods and bear between the outer ends of the extension arms 19 and the heads of said plunger rods and serve to normally support the latter in an elevated position. A suitable stamping device 31 is detachably secured to the lower end of each plunger rod 29.

A collar 32 is rigidly secured to the shaft 4 near its upper end by a set screw 33 and is provided with oppositely extending pairs of ears or lugs 34 between which are pivotally mounted hammer arms 35. On each hammer arm is secured a radially adjustable hammer head 36 by means of a set screw 37. It will be observed, by reference to the drawings, that one of the hammer heads is disposed directly over the inking pad 10 and that the other hammer head is disposed diametrically opposite such inking pad.

When the sleeve 14 is revolved by means

of the spider 15 which is itself revolved by the successive cans, the head which carries the stamp operating plunger rod and the cam element revolves with said sleeve so that each stamping device in succession passes over the said inking pad. The hammer arms, being pivotally connected to the collar 32 which is rigidly secured to the non-revoluble shaft 4, do not rotate with the cam element, but the latter passes under such hammer arms and as each of its cam shoulders passes in succession under one of the hammer arms, its inclined edge raises such hammer arm and as its vertical edge passes from under such hammer arm, the latter drops, causing its hammer head to strike on the upper end of one of the stamp operating rods so as to depress such operating rod or plunger 28 against the tension of its spring 30. Hence the stamp operating plunger which happens to be disposed above the inking pad will be brought into contact with such inking pad to cause its stamping device to be inked thereby. The can to be stamped is placed on the support *a* and as the arm 26 carrying a stamp operating plunger rod passes over such can, it comes under one of the hammer heads as the latter descends so that such hammer head forces such plunger rod downwardly and causes such stamping device to make its imprint or mark upon the can, as will be understood. It will be understood that as one of the inking devices is automatically inked and another is automatically driven down upon a can at each partial rotation of the head, the machine is very rapid in its action and serves to stamp cans as fast as the latter can be placed thereunder and the said head partly turned, thereby enabling a single attendant to stamp a large number of cans in a comparatively short time.

It is necessary to rotate the inking pad by step by step movement in order to present a new surface thereof to the stamping devices to keep the latter properly inked and I therefore provide devices which coact with the ratchet gear 13 to thus rotate the head and hence the inking pad, which devices I will now describe.

The bracket 6 is provided with a bearing 38 having a rock shaft 39, the said bearing having a removable outer portion 40 secured to the said bracket by a screw 41. Said rock shaft is provided at its inner end within an upwardly extending tappet arm 42 which is within the radius of the arms 16 of the spider 15, so that as said spider rotates, each of its said arms in succession engages said tappet arm and partially turns said rock shaft in one direction. A spring 43 is attached to the said bracket arm and operates to move said rock shaft in the reverse direction. At the outer end of said rock shaft is an upturned rock arm 44 to the upper end of which is pivoted a pawl 45 which is held in normal engagement with the ratchet gear 13 by means of a spring 46 which is here shown as a coiled spring disposed on the rock arm 44. It will be understood that owing to the oscillating movement of the rock arm 45 imparted thereto by the reversely acting arm of the spider 15 and the spring 43, the said pawl serves by coaction with the said ratchet gear to partially rotate the head, which carries the inking pad at each partial rotation of the spider.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent is:—

1. In a machine of the class described, the combination of a revoluble element, a cam revolving therewith and a stamping device carried thereby, a hammer actuated by the said cam and movable in a plane at right angles to the plane of movement of such cam.

2. In a machine of the class described, in combination with an inking device, a revoluble element carrying an independently movable stamping device, a hammer to actuate such stamping device and a cam revoluble with such revoluble element to automatically operate such hammer, for the purpose set forth.

3. A machine of the class described comprising a fixed shaft, a relatively fixed inking device, a revoluble element on said shaft, a cam revolved by such revoluble element, an independently movable stamping device carried by such revoluble element, and a hammer to operate such stamping device connected to the said shaft and operated by the said cam.

4. A machine of the class described comprising a fixed shaft, a relatively fixed inking device, a revoluble element mounted on said shaft, a cam revoluble with such revoluble element, a plurality of independently movable stamping devices carried by such revoluble element and successively moved thereby over such inking device, and a plurality of hammers connected to the said fixed shaft and operated by the said cam to simultaneously operate a plurality of stamping devices while one of them is over such inking device.

5. A machine of the class described comprising a fixed shaft, a relatively fixed inking device, a revoluble head mounted on said shaft and having means whereby it may be rotated, a cam carried by and revoluble with said head and having a plurality of cam surfaces, a plurality of stamping devices carried thereby and each moved independently of said head, springs to raise such devices, and a plurality of hammers connected to said shaft and operated by the said cam and so disposed as to simultaneously depress a plurality of the stamping devices while one of the latter is over the said inking device.

6. In a machine of the class described, the combination of a revoluble element, a cam revoluble therewith a stamping device car-

ried thereby, a hammer actuated by the said cam and movable in a plane at right angles to the plane of movement of such cam, an inking device for such stamping device and means operated by said revoluble element to impart step by step movement to such inking device.

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

CHARLES C. BROWN.

Witnesses:
CHAS. W. HAWKINS,
F. C. DOMBROCK.