(No Model.)

J. B. HOLSTEN.

SUPPORTING ATTACHMENT FOR CAN FLOATING POTS.

No. 498,653. Patented May 30, 1893.

Fig. 1.

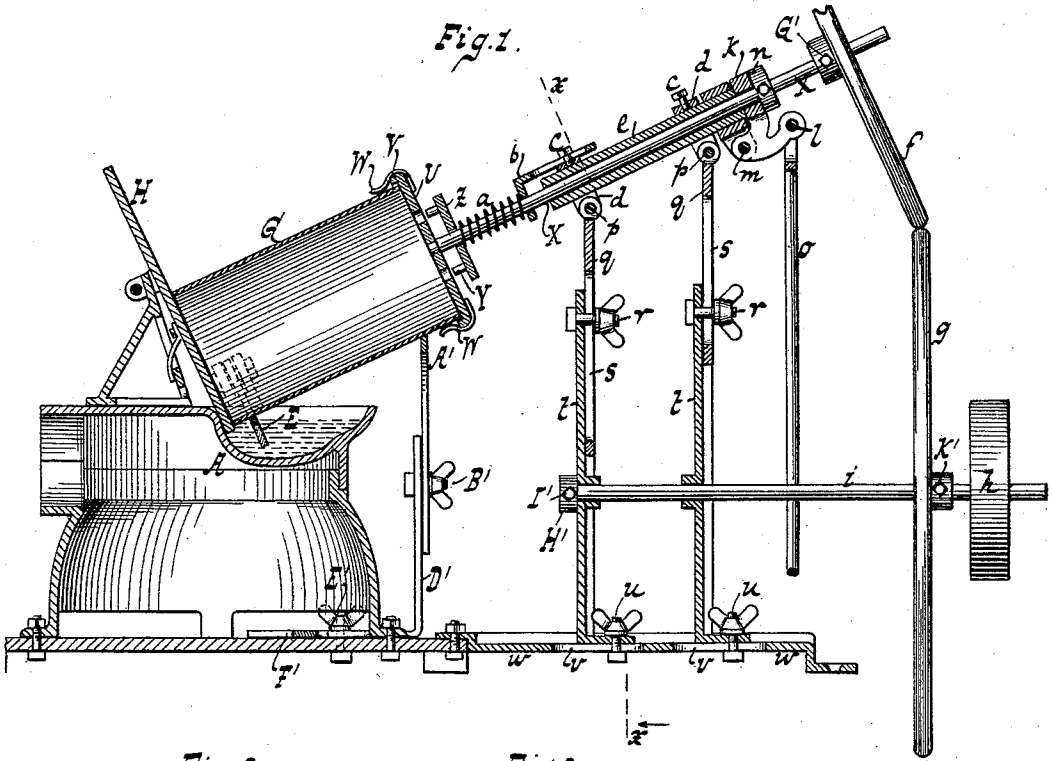


Fig. 3.

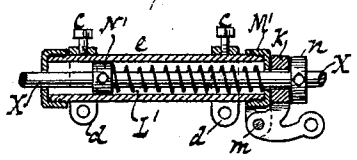
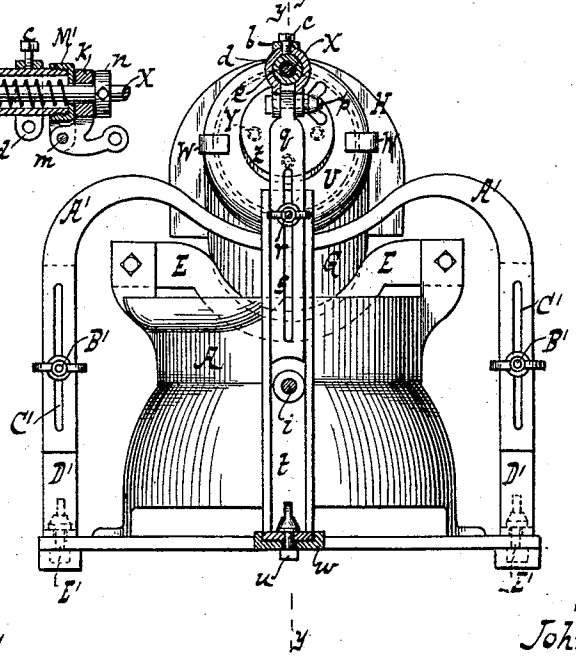


Fig. 2.



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UNITED STATES PATENT OFFICE.

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SUPPORTING ATTACHMENT FOR CAN FLOATING POTS.

SPECIFICATION forming part of Letters Patent No. 498,653, dated May 30, 1893.

Application filed February 9, 1893. Serial No. 461,636. (No model.)

To all whom it may concern:

Be it known that I, JOHN B. HOLSTEN, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Supporting Attachments for Can Floating Pots, of which the following is a specification.

This invention relates to an attachment or device to be used in connection with floating pots and the object of the invention is to form a support adapted for ready engagement and disengagement of cans while being soldered as set forth in the following specification and claims and illustrated in the annexed drawings, in which—

Figure 1, is a side elevation of the attachment sectioned along *y y* Fig. 2. Fig. 2, is a section along *x x* Fig. 1. Fig. 3, shows an actuating spring applied to move the holder shaft.

In the drawings the letter A indicates a floating pot of suitable structure such for example as that shown in United States Letters Patent No. 482,638, granted to me September 13, 1892. The can G rested against gage H will have solder properly applied when rotated.

In the drawings I have shown the can G engaged by a holder composed of a base U having a rim V and springs W for suitably holding the can and compelling it to rotate with the holder. Said holder U V is mounted on a shaft X capable of rotary and longitudinal movement. When the shaft X with the holder is moved longitudinally in a direction away from the pot A the holder will be carried toward the ejector Z so that the fingers Y of the ejector passing through the perforated bottom or base U of the holder will eject or release the can.

The ejector Z consists of a disk loosely mounted on shaft X and exposed to the pressure of spring *a* coiled about shaft X and resting against brace *b* held or fixed by one of the screws or fastenings *c*. The screws or fastenings *c* extend through the bands *d* surrounding the sleeve or bearing *e* of shaft X and secure said sleeve *e* in the bands *d*. The brace *b* has a slot so that on loosening the proper fastening *c* the brace *b* can be properly set or adjusted after which the fastening *c* is tightened to fix the brace *b* in position.

The shaft X is rotated in the sleeve or bearing *e* by any suitable means as for example friction gears *f g* a driver or pulley *h* rotating the shaft *i* of gear *g*.

The longitudinal motion of shaft X is obtained by means of lever *k l* fulcrumed at *m* to the sleeve or bearing *e*. The lever arm *k* engages a shoulder or collar *n* on shaft X and to lever arm *l* is connected a cord or rod *o* extending to a treadle or actuator (not shown). By drawing down the cord or connection *o* the lever *l k* is moved to press or move collar *n* with shaft X in a direction away from pot A.

The bands *d* carrying the sleeve *e* are jointed or pivoted at *p* to the supports *q* which are adjustably secured by screw and slot connections *r s* to the main supports *t* in which is also supported shaft *i*. The supports *t* are adjustably secured by screw and slot connections *u v* to the base *w*. The adjustable connections *r s u v* and joints *p* enable the sleeve *e* and shaft X to be set as required for a proper position of can G.

It has been noticed that when the holder U V is moved away from pot A the ejector fingers Y force the can G free from the holder U V. That the outer end of said can may then be properly supported I provide a rest A′ secured by a screw and slot connection B′ C′ to the supports D′ adjustably secured by screw and slot connections E′ F′ to a suitable base. The adjustable connections B′ C′ E′ F′ enable the rest A′ to be set for properly supporting the can when not engaged by holder U V.

The can G can of course be readily taken from the rest A′ and guide bar E and a fresh can put in said place will be engaged by the holder U V and springs W as soon as such holder is moved or forced toward the can.

When the shaft X is set to a different position the contact of gears *f g* is secured by proper adjustment. The gear *f* is adjustably secured to shaft X by a set screw G′. The collar H′ on shaft *i* can also be adjusted by loosening the set screw I′ and the gear *g* can be adjusted by set screw K′. Similarly the pulley *h* can be made adjustable on shaft *i*. The working contact between gears *f g* can thus be obtained in the different positions to which shaft X and its sleeve *e* can be set.

In the position of parts in Fig. 1 the holder

shaft X might be allowed to slide or move toward pot A by its weight when released but it is reliable to have a spring L′ (Fig. 3) coiled about shaft X and braced against a collar or cap M′ screwed or secured to bearing *e* and pressing on a collar N′ secured to shaft X. By making the collar N′ adjustable as by a set screw this collar can be set to regulate the tension of the spring. On removing cap M′ the spring L′ can be removed.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination with a rotary holder of a spring pressed disk having ejecting fingers for disengaging an article from the holder, said holder being movable to and from the ejecting fingers and having a perforated bottom through which said ejecting fingers pass, substantially as described.

2. The combination with a holder and a rotary and longitudinally movable shaft for supporting the holder of a spring pressed disk mounted on said shaft and having ejecting fingers for disengaging an article from the holder, substantially as described.

3. The combination with a holder and a rotary shaft on which the holder is mounted of a sleeve or bearing for said shaft a lever or arm for giving said shaft longitudinal motion in the bearing, a spring coiled about the shaft, a brace for said spring adjustably fixed to the bearing and an ejector mounted on the shaft and pressed by said spring, substantially as described.

4. The combination with a holder, a rotary and longitudinally movable shaft for the holder and a spring pressed ejector, of a sleeve or bearing for the shaft, adjustable sleeve supports *q* to which said sleeve is jointed and adjustable main supports *t* for said sleeve supports, substantially as described.

5. The combination with a holder, a rotary and longitudinally movable shaft for the holder and a spring pressed ejector, of a sleeve or bearing for the shaft, adjustable sleeve supports *q* to which said sleeve is jointed, adjustable main supports *t* for said sleeve supports, a rest A′ for the article in the holder and adjustable supporting arms D′ to which said rest A′ is adjustably secured, substantially as described.

6. The combination with a holder, a shaft for the holder and a sleeve or bearing for the shaft of bands *d* provided with fastenings *c* for engaging the sleeve and adjustable supports to which said bands are jointed, said sleeve being provided with a lever for giving the shaft longitudinal motion, a brace adjustably fixed by one of the fastenings *c*, a spring coiled about the shaft and made to rest against the brace and an ejector mounted on the shaft and pressed by the spring, substantially as described.

7. The combination with a holder, a rotary and longitudinally movable shaft for the holder, an ejector, and a sleeve or bearing for the shaft of adjustable supports for the sleeve, a driving shaft *i* adjustably mounted in the supports, a driving gear *g* adjustably mounted on the driving shaft and a gear *f* adjustably mounted on the holder shaft and adapted for engagement by the driving gear, substantially as described.

8. The combination with a holder, a rotary and longitudinally movable shaft for the holder and an ejector, of a sleeve or bearing for the shaft and provided with a cap, an adjustable collar on the shaft and a spring braced between the collar and cap for giving longitudinal motion to the shaft, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

JOHN B. HOLSTEN.

Witnesses:
WM. C. HAUFF,
E. F. KASTENHUBER.