

J. I. ROBIN.
MACHINE FOR USE IN THE MANUFACTURE OF INCANDESCENT GAS MANTLES.
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1,054,620.

Patented Feb. 25, 1913.

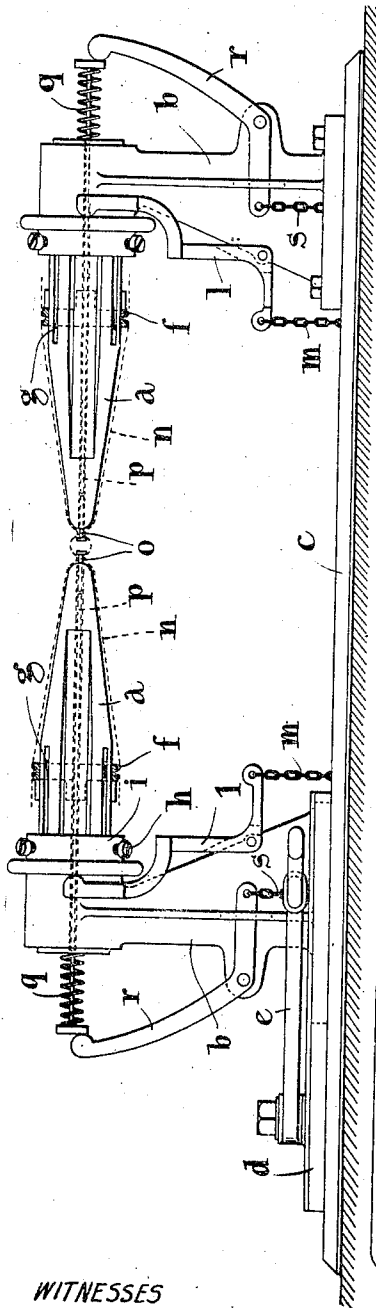


Fig. 1.

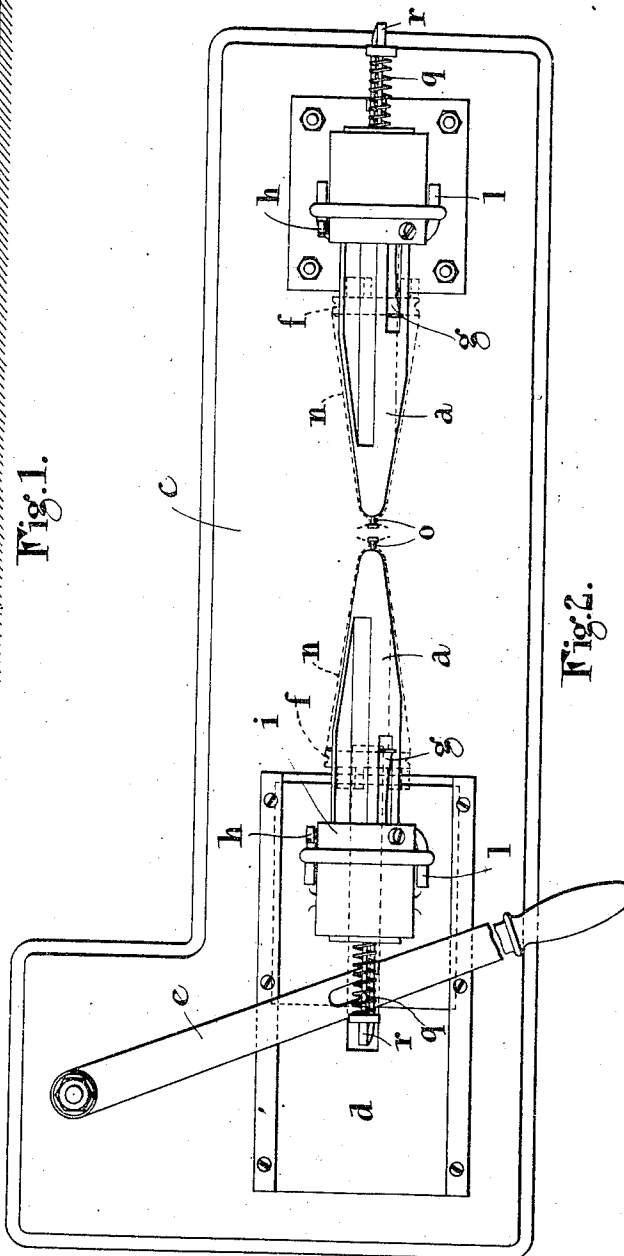


Fig. 2.

WITNESSES

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MACHINE FOR USE IN THE MANUFACTURE OF INCANDESCENT GAS-MANTLES.

1,054,620.

Specification of Letters Patent.

Patented Feb. 25, 1913.

Original application filed October 8, 1910, Serial No. 535,992. Divided and this application filed October 22, 1912. Serial No. 727,123.

To all whom it may concern:

Be it known that I, JACOB IGNOT ROBIN, a citizen of the United States of America, and residing at 121 Bollo Bridge road, Acton, in the county of London, England, have invented a certain new and useful Improved Machine for Use in the Manufacture of Incandescent Gas-Mantles, of which the following is a specification.

This invention relates to the manufacture of incandescent gas mantles and has more particular reference to a machine for finishing mantles formed upon the machine forming the subject matter of my co-pending application, Serial No. 585,992, filed Oct. 8, 1910, of which this application is a division.

The object of the invention is to provide an apparatus whereby the half completed mantles formed by the machine above referred to may be readily and rapidly completed without necessitating the use of skilled labor in the operation.

The invention consists in a machine for use in the manufacture of incandescent gas mantles, comprising a pair of mandrels upon which the half completed mantles are supported, and means for tying the material of the mantles at about a middle point of its length and for separating into two single mantles.

The accompanying drawings illustrate one mode of carrying out the invention: Figures 1 and 2 being respectively a front elevation and plan of a suitable form of apparatus constructed in accordance with the invention.

In carrying my invention into effect in one convenient manner, I provide a pair of mandrels or formers *a* held in alinement with one another, each of the mandrels being supported in a standard *b* mounted upon a base *c* and so arranged that one of the mandrels may be movable in a slide *d* by means of a pivoted lever *e*, although I may arrange the mantle to be moved against the action of a spring by means of a chain or cord passing over pulleys and adapted to be pressed by foot of the operator so that both hands may be left free. Each of the mandrels *a* is provided with three slots as shown in which the lugs of the mantle holder *f* slide, when the latter is placed upon this mandrel, and located in a second set of slots are springs *g* adapted to be depressed

by means of screws *h* or projections on the collars *i* slidably mounted upon the mandrels. On bringing the collars toward one another, the springs *g* are depressed so that the mantle holder is free to pass over them and on returning the collars to their normal position, the springs are raised thus holding the mantle holders securely in position.

The collars *i* may be arranged to be moved by hand, but I prefer to move them against the action of springs *k* by means of pivoted levers *l* adapted to be operated by means of chains or the like *m*, the mantle holders *f* with their attached material *n* (shown dotted) being secured in position on their respective mandrels. The operator ties the material on to the pins *o* which are preferably provided with heads and are removably mounted in the ends of the mandrels. On each tying operation the mandrels which are normally held apart by light springs (not shown) located in the heads of the standard *b* are drawn together as the tension comes upon the material, the result being that the latter bulges slightly (as shown in Fig. 2) and two inverted incandescent mantles are then formed. Pins *o* may be then removed by hand or automatically for example, by means of long pins or rods *p* normally held just out of engagement with the pins *o* by means of springs *q* and adapted to be pushed in against the action of said springs so as to eject the pins *o* by means of pivoted levers *r* adapted to be operated by chains or the like *s*. The material *n* is now cut or severed between the points of tying and two completed mantles are thus formed and may be removed for the reception upon the device of a further pair of half finished mantles.

Having now described my invention what I claim as new and desire to secure by Letters Patent is:—

1. A machine for use in the manufacture of incandescent gas mantles, comprising a pair of mandrels arranged in alinement with one another and normally held apart by means of light springs; means for holding the mantle holders in position upon said mandrels, and means for tying the material of the mantles at one or more points between the mantles.

2. A machine for use in the manufacture of incandescent gas mantles, comprising a pair of mandrels arranged in alinement with

one another and normally held apart by light springs; a pin removably mounted in the end of each mandrel on to each of which the material of the mantle is tied, and means
5 for removing said pin when the material has been tied and cut so as to form two mantles.

3. A machine for use in the manufacture of incandescent gas mantles, comprising a pair of mandrels arranged in alinement with
10 one another and normally held apart by light springs; means for retaining the mantle holders in position upon said mandrels; a pin removably mounted in the end of each
15 mandrel, and means for automatically ejecting said pin when required.

4. A machine for use in the manufacture of incandescent gas mantles, comprising a pair of mandrels arranged in alinement with
20 one another and normally held apart by light springs; springs upon said mandrels for retaining the mantle holders in position;

a pin removably mounted in the end of each mandrel, and means for automatically ejecting said pin when required.

5. A machine for use in the manufacture
25 of incandescent gas mantles, comprising a pair of mandrels arranged in alinement with one another and normally held apart by light springs; springs upon said mandrels
30 for holding the mantle holders securely in position; means for automatically adjusting said springs; a pin removably mounted in the end of each mandrel, and pins passing
35 through said mandrels for automatically ejecting the removable pin when required.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JACOB IGNOT ROBIN

Witnesses:

BERTRAM H. MATTHEWS.

WALTER J. SKERTEN.