

LACQUERING OR PAINTING MACHINE FOR TINS AND SIMILAR CLOSED RECEPTACLES.

Patented Jan. 29, 1918.

2 SHEETS—SHEET 1.

-FIG. 1-

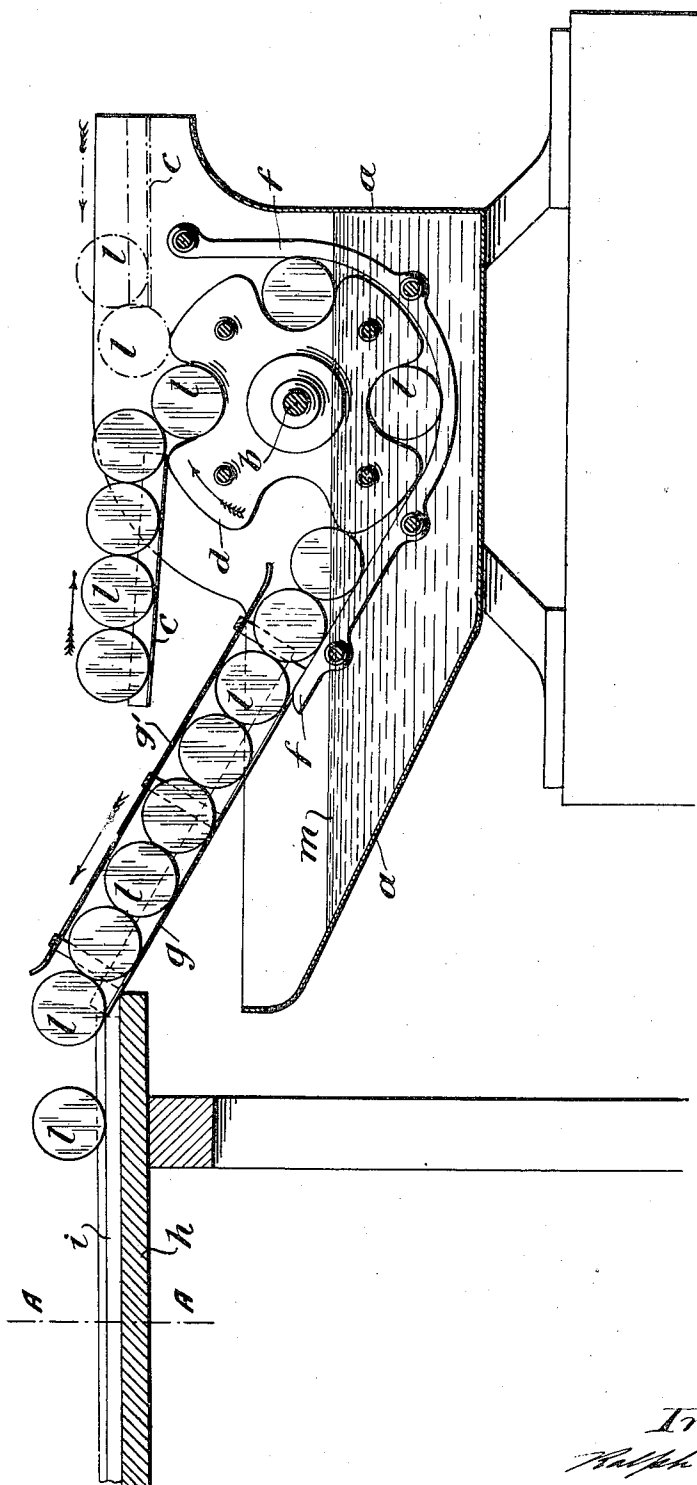
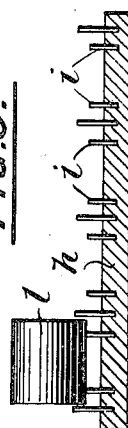
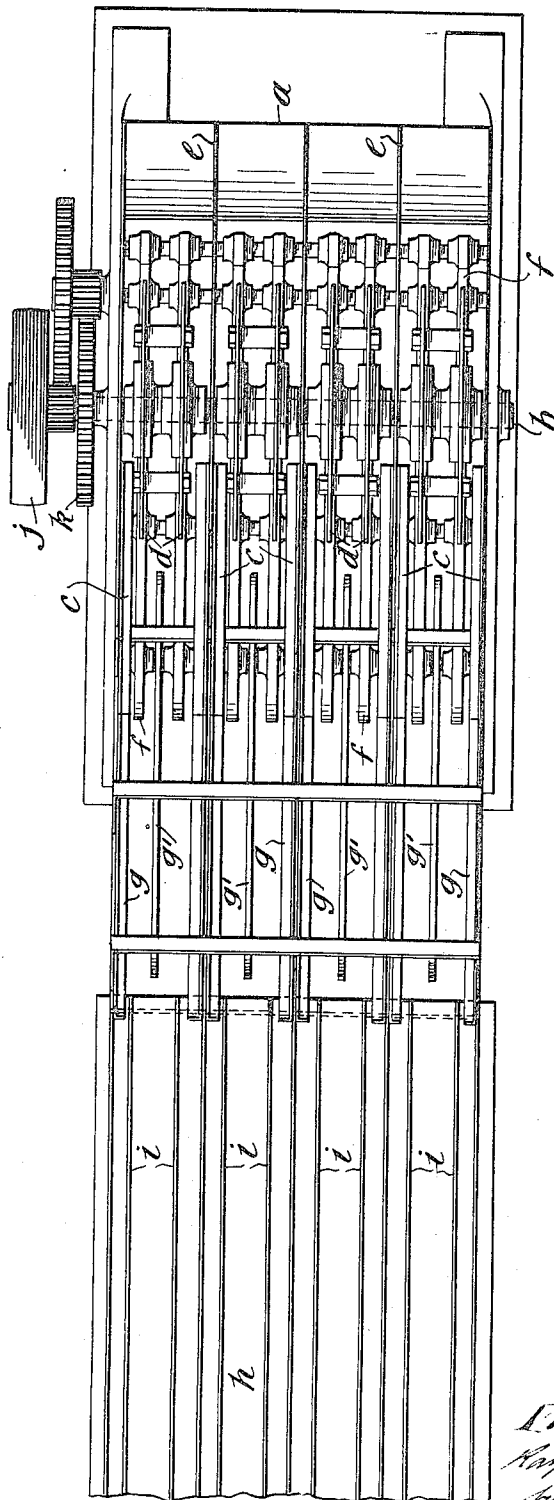


FIG. 3.



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FIG. 2.



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UNITED STATES PATENT OFFICE.

RALPH MACHIN, OF RATCLIFF, LONDON, ENGLAND.

LACQUERING OR PAINTING MACHINE FOR TINS AND SIMILAR CLOSED RECEPTACLES.

1,254,918.

Specification of Letters Patent.

Patented Jan. 29, 1918.

Application filed May 5, 1916. Serial No. 95,599.

To all whom it may concern:

Be it known that I, RALPH MACHIN, a subject of the King of Great Britain, and resident of Brook street, Ratcliff, London, England, manufacturing confectioner, have invented new and useful Improved Lacquering or Painting Machines for Tins and Similar Closed Receptacles, of which the following is a specification.

10 Various commodities, for instance, articles of food are contained in receptacles of tinned metal or in other hermetically sealed packages.

It is usual before sending out the packed 15 receptacles, which are commonly called tins or cans and are cylindrical in shape, to immerse them in a liquid lacquer, paint or varnish, in order to preserve the exterior of the said tins from rust.

20 A machine has previously been proposed wherein the cans have been carried through a tank of lacquer by means of an endless chain and delivered thereby onto a drying table.

25 The present invention has for its object to provide an improved machine by means of which the lacquering, painting or varnishing operation may be expedited.

A machine embodying my invention is 30 illustrated in the accompanying drawing,—

Figure 1 being a longitudinal section,

Fig. 2 a plan view, and

Fig. 3 a cross section on the line A—A of Fig. 1.

35 *a* is a tank to contain lacquer supported in any convenient manner and *b* is a shaft extending across the same. *d* are star wheels with notches to receive the tins to be lacquered. There may be any convenient number of these wheels which are arranged in 40 pairs and fixedly mounted on the shaft *b*. Four pairs of star wheels are shown in the accompanying drawing. The pairs of star wheels are separated by partition plates *e*. 45 *f* are curved arms forming beds partly surrounding the star wheels *d* and terminating in upward inclines leading to parallel rails *g* in line therewith and provided with overhanging bars *g*¹ which retain the tins upon 50 the rails *g*. *h* is a table furnished with rails *i* adapted to receive the tins from the rails

g. *j* is a pulley and *k* is a train of gear wheels for driving the shaft *b* and the star wheels *d* in the direction of the arrow (Fig. 1). *c* are rails upon which the tins *l* are 55 placed before undergoing the lacquering operation. It will be observed that provision is made for feeding the machine both from the back and from the front so that the receptacles to be treated can be placed either 60 on the rails shown in full lines or on those shown dotted in Fig. 1, as may be desired.

The tins drop into the notches of the star wheels, which notches are suitably formed 65 to receive them and are carried around by the rotating wheels through the lacquer *m* which is placed in the bottom of the tank *a* the tins being supported by the arms *f* in the manner shown in Fig. 1. After immersion the tins push one another up the 70 inclines of the arms *f* and the rails *g* where the excess of lacquer drains off and falls back again into the tank. From the rails *g* the tins pass onto the rails *i* of the table *h* which leads to the delivery where the at- 75 tendant receives the tins for packing. A machine of this description running continuously is capable of lacquering a great number of tins in a given time and the powers of an attendant to keep the rails fully sup- 80 plied may be fully taxed.

What I claim and desire to secure by Letters Patent of the United States is:—

A can lacquering machine comprising a drying table, a tank for the lacquer, the said 85 tank having an elongated portion on the delivery side of the machine, an open inclined delivery way overlying the elongated portion of the tank and leading to the drying table, a notched wheel mounted to rotate in the tank and a bed in said tank beneath the wheel, a portion of which bed is concentric with the wheel and a portion tangential thereto, the said tangential portion forming with the inclined delivery way, a 90 continuous path up which the cans are pushed through intermediate cans, to the drying table by the rotation of the notched wheel.

In testimony whereof I have signed my 100 name to this specification.

RALPH MACHIN.