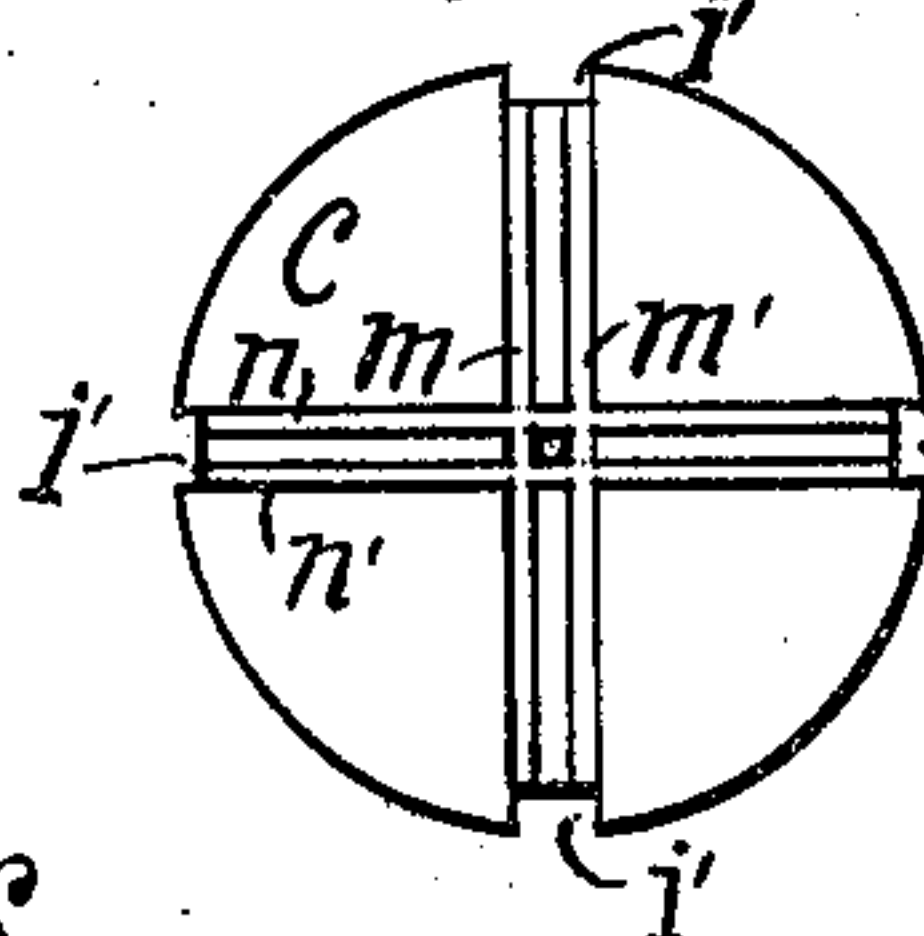
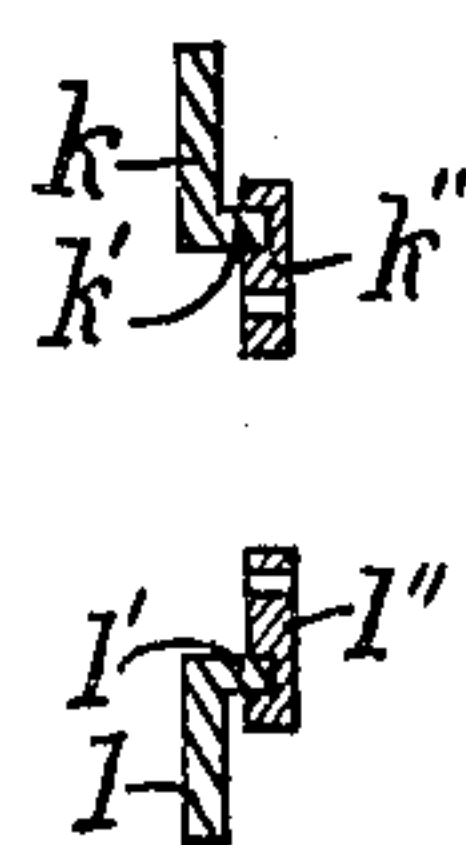
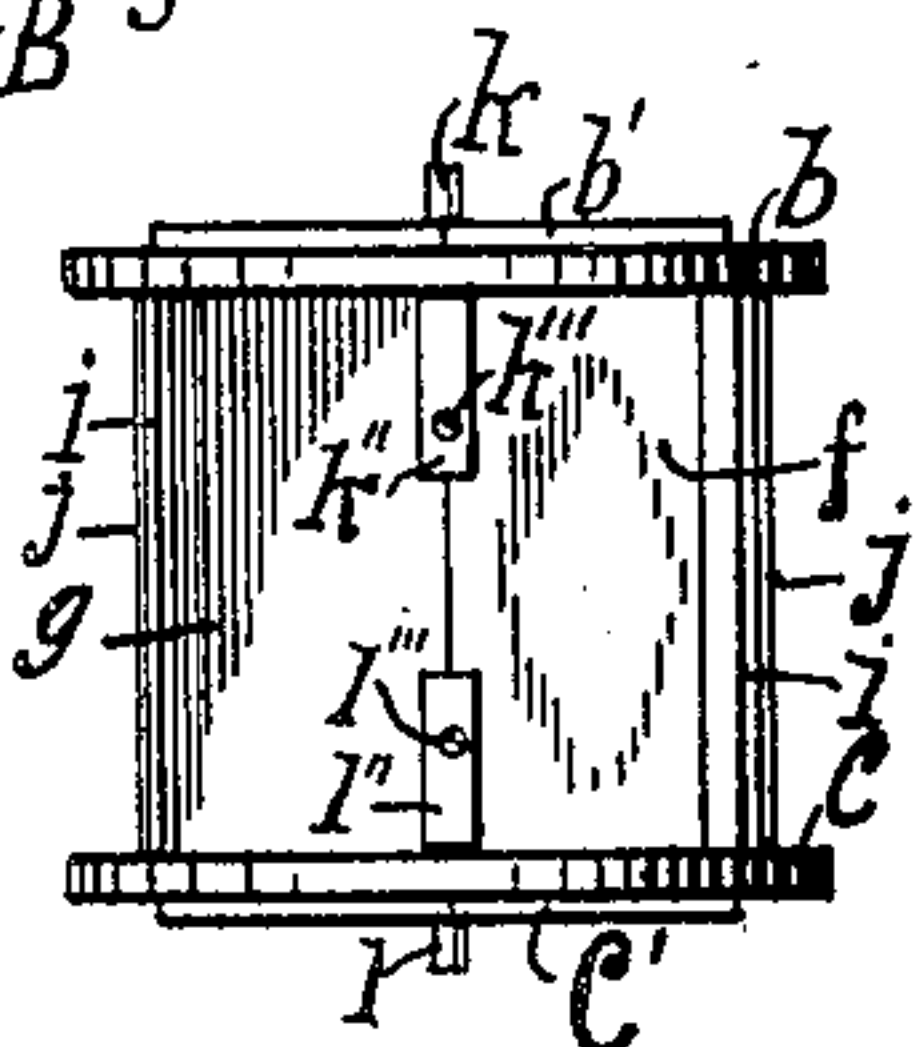
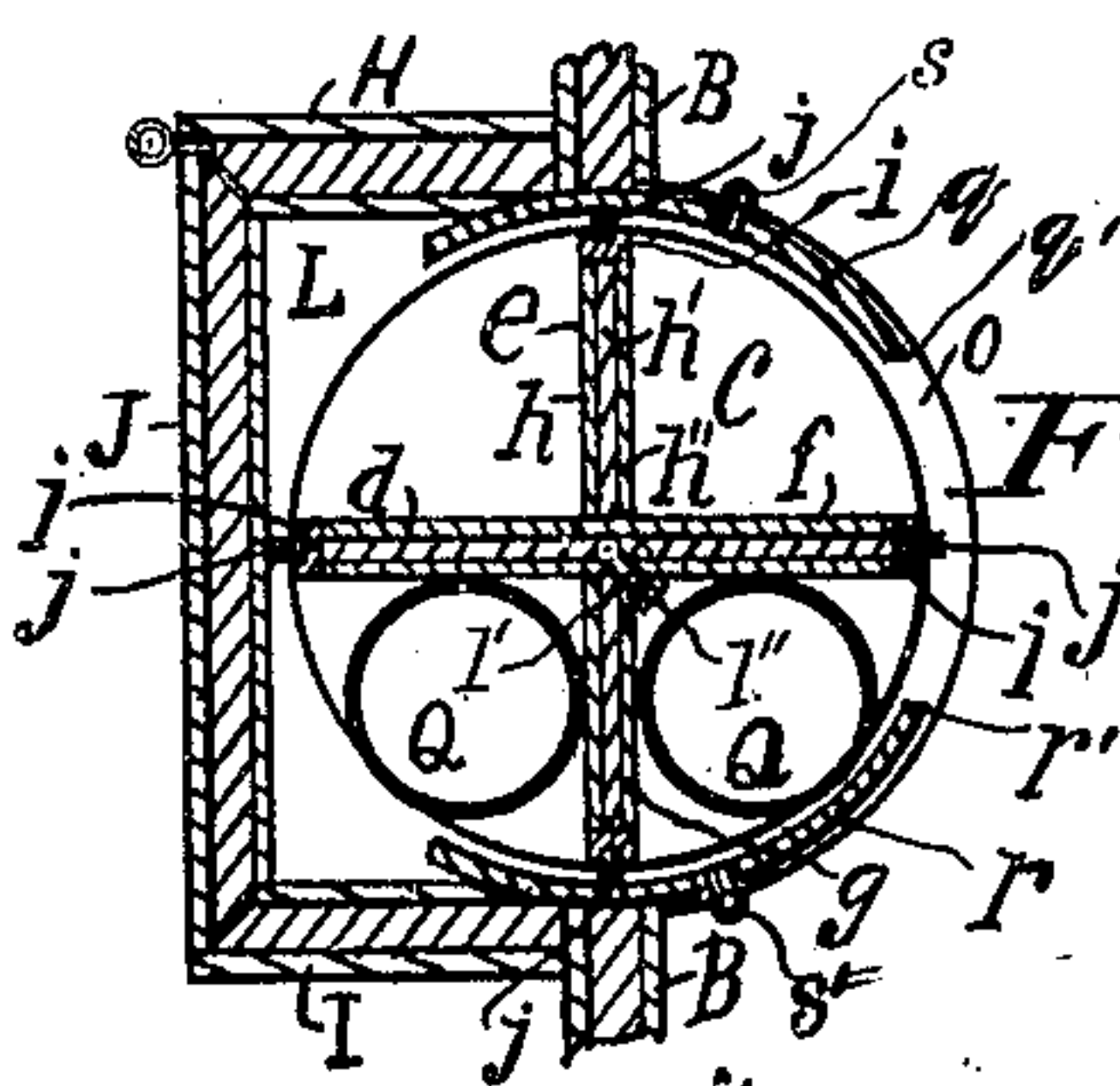
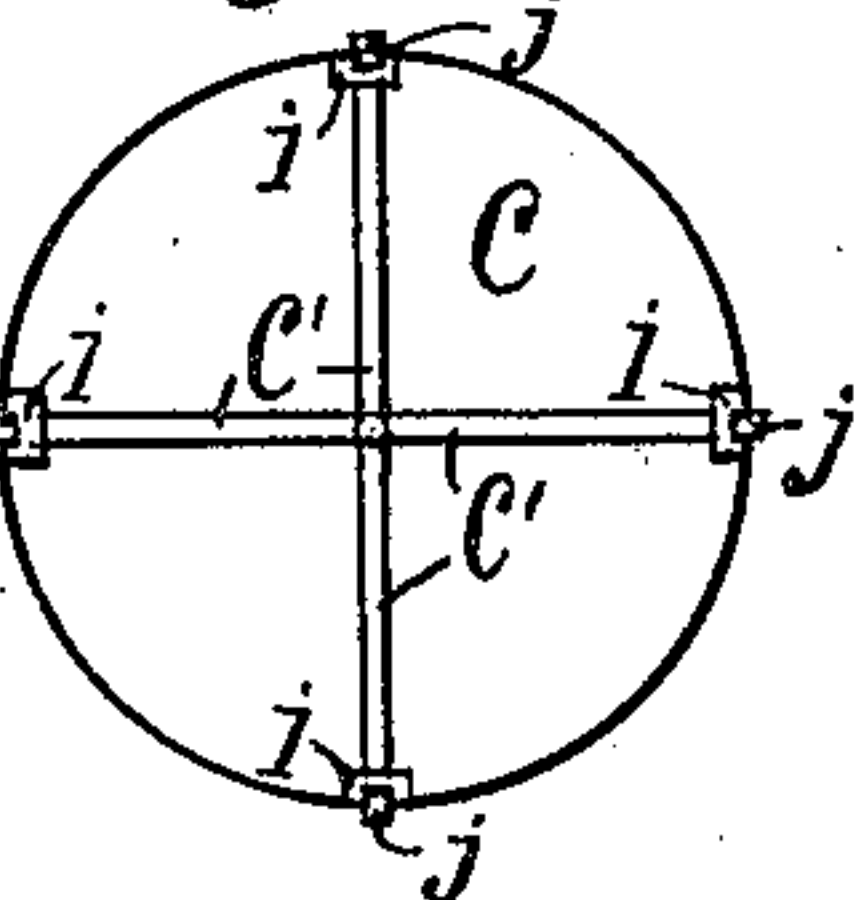
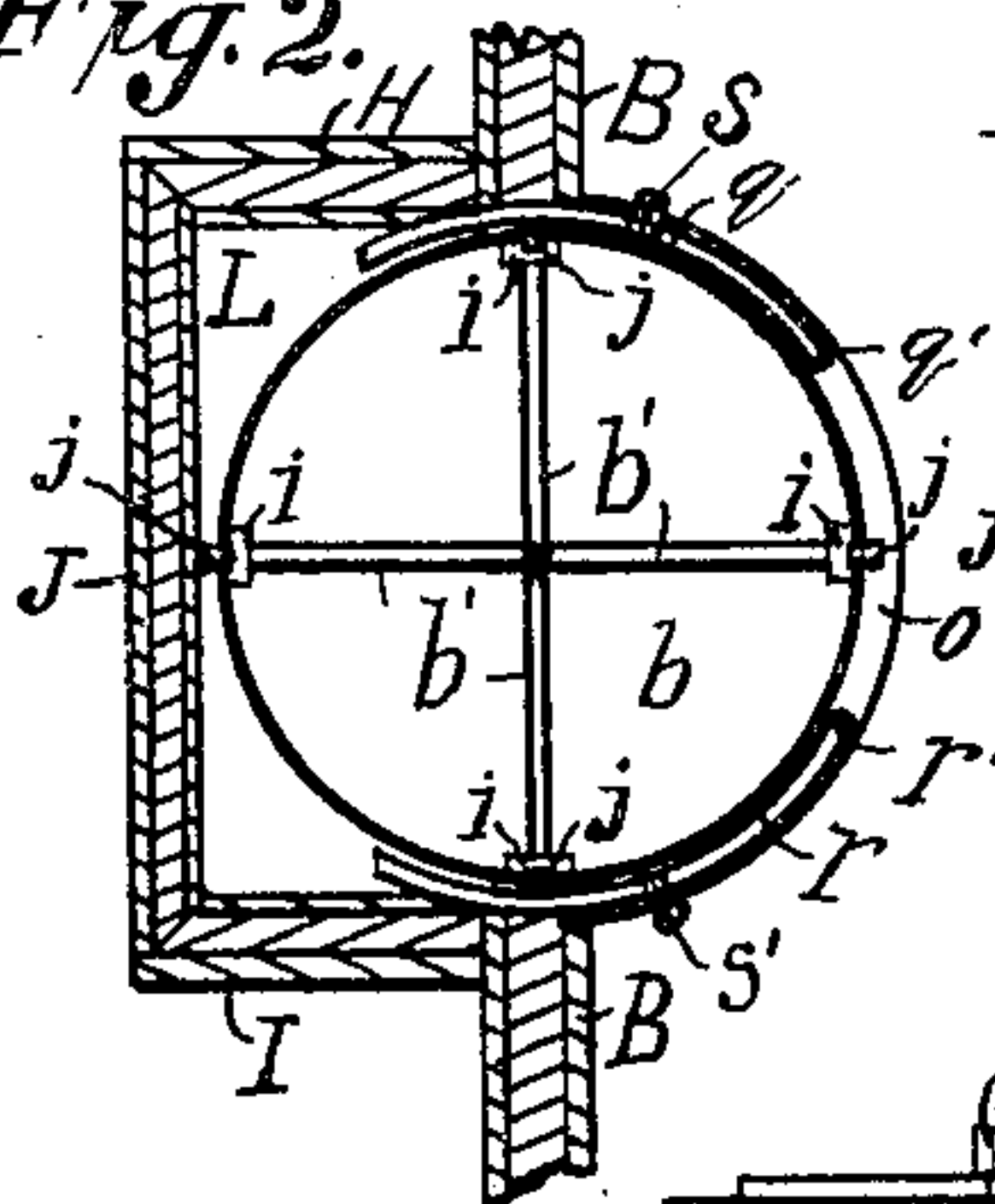
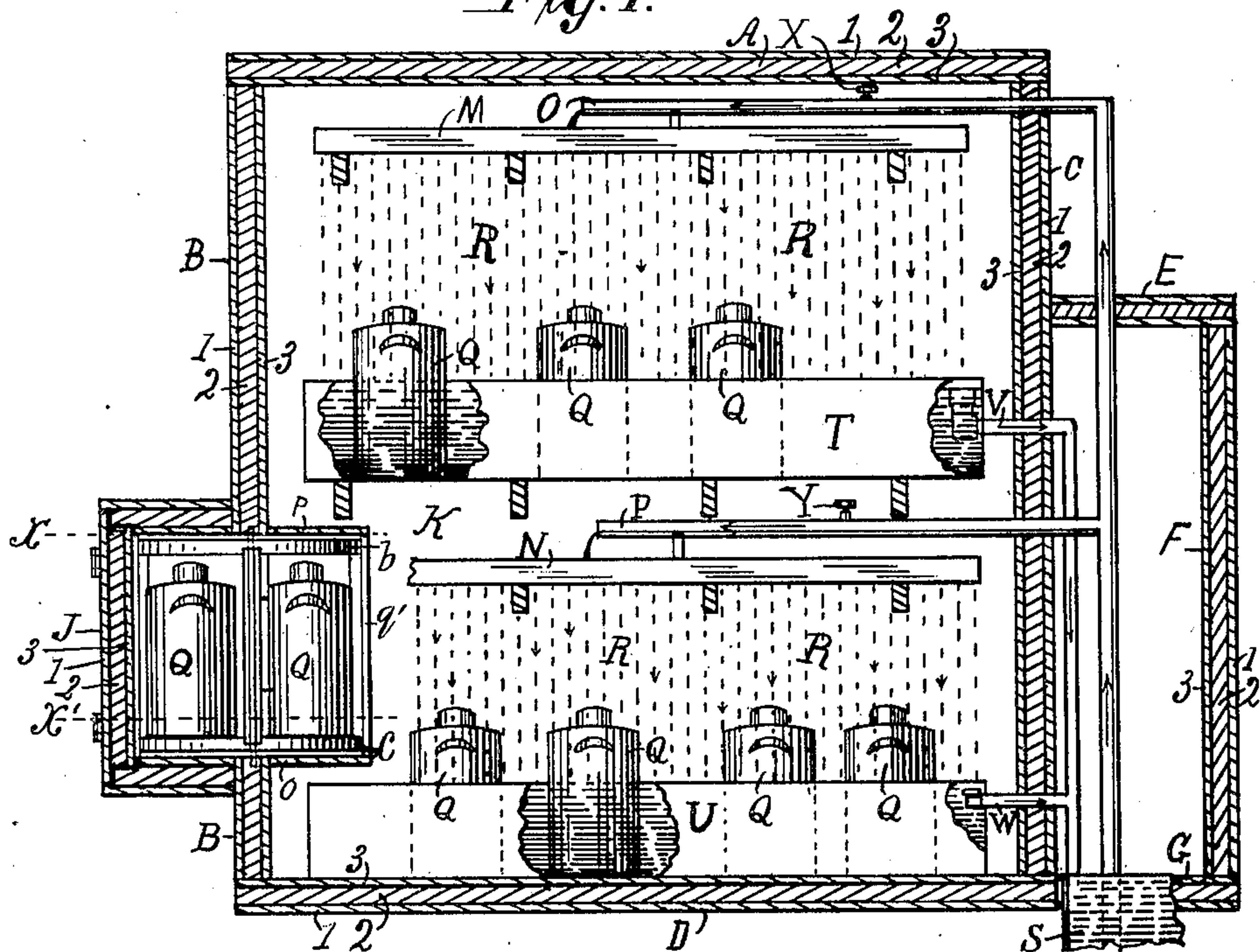


**925,605.**

*Fig. 1.*



By

Inventor.  
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Attorney.



# UNITED STATES PATENT OFFICE.

DAVID F. SOLLIDAY, OF OKLAHOMA, OKLAHOMA.

## DEVICE FOR COOLING-ROOMS.

No. 925,605.

Specification of Letters Patent.

Patented June 22, 1909.

Application filed September 14, 1908. Serial No. 452,863.

*To all whom it may concern:*

Be it known that I, DAVID F. SOLLIDAY, a citizen of the United States, residing at Oklahoma city, in the county of Oklahoma and State of Oklahoma, have invented certain new and useful Improvements in Receiving and Delivering Devices for Cooling-Rooms, of which the following is a specification.

My invention relates to receiving and delivering devices for cooling rooms, in which an outward projection is formed in the wall of the cooling room constituting a bay-window-like recess with an outward swinging door and from the jambs of said recess having inwardly converging circular wings the said recess having vertically pivoted therein a rotatable partitioned platform, being reversible and having strips of felt or other packing upon its peripheral edges and upon the extreme surfaces of its ends or heads to prevent the escape of cold air from the cooling room or the access of warm air thereto while rotating said platform or receiving and delivering device.

The objects of my invention are to provide a convenient device and method of transferring articles, more especially ice-cream-cans to and from a cooling room or a cold storage room without perceptible change of the temperature of said room by the escape of cold air and the entrance of warm air during the operation. I accomplish these objects by the mechanism illustrated in the accompanying drawings forming a part of this specification, in which:

Figure 1 is a vertical sectional view of a cooling room provided with one of my receiving and delivering devices; Fig. 2 is a horizontal sectional view on line  $x$  Fig. 1; Fig. 3 is a plan of the upper surface of the roof or the under surface of the platform or floor of the device; Fig. 4 is a horizontal section on line  $x'$  Fig. 1; Fig. 5 is an elevation of the device removed from its seat; Fig. 6 is a vertical section of the upper and lower pivots of the device; Fig. 7 is a plan of the upper surface of the floor and the under surface of the roof of the device showing the double grooves in which the partitions are placed.

Similar letters refer to similar parts in the several views.

Referring to the drawings, A designates the ceiling or roof of the cooling room, B the left wall, C the right wall and D the floor of the said room; E, F and G indicate the roof, the wall and the floor of the vestibule of the cool-

ing room; H and I indicate the side walls of the bay-window-like off-set or recess in the wall B of the cooling room and J denotes the door which serves as the outward wall of said recess. All of the walls, floors and the said door are composed of three parts an outer part or wall 1, an inner part or wall 3 and central part 2, being a space filled with asbestos or other material comparatively impervious to heat and cold or thermal action.

To provide means by which articles may be transferred to and from the cooling room K with a minimum loss of cold air or rise of temperature a tightly fitting door J is hinged to one of the side walls, as H or I, of the recess L in a manner to swing outwardly and within said recess is vertically pivoted the rotatable receiving and delivering device consisting of a roof  $b$ , a floor  $c$ , right-angled partitions  $d$   $e$   $f$  and  $g$ , in the present case composed of the two walls  $h$ ,  $h''$  the anti-thermal packing  $h'$  and the peripheral packing seat strip  $i$  in which the packing  $j$  is set to prevent the escape of cold air from the cooling room or the admission of warm air thereto during active service and for the same purpose right-angled grooves are cut in the upper surface of the roof  $b$  and the under surface of the floor  $c$  and the strips of felt or other packing  $b'$  and  $c'$  is set in said grooves. See Figs. 1, 2, 3, 4 and 5. By a sacrifice of utility the said partitions  $d$   $e$   $f$   $g$  may be constructed of a single wall with the packing tacked upon its outer edge, which it is deemed unnecessary to illustrate.

To install said receiving and delivering device within said recess the device is placed vertically within the recess the upper journal  $k$  is placed in a hole to receive it and the device being properly adjusted the lower journal  $l$  is extended downward into its receptacle and to secure the journals in their receptacles the journal keys  $k''$  and  $l''$  are secured in place by the screws  $k'''$  and  $l'''$ , see Figs. 5 and 6, the latter of which shows the journals to have short right-angled arms  $k'$  and  $l'$  for heads which fit into notches in the said keys which are three-cornered strips having holes for the screws  $k'''$  and  $l'''$ . At the juncture of the said partitions a vertical slot should be cut for the movement of the head of each journal; by means of these journals and keys the said device can be removed at will. See Figs. 1, 5 and 6.

Grooves  $m$   $m'$  and  $n$ ,  $n'$  are cut in the under surface of the roof  $b$  of the device and in the



upper surface of the floor *c* for the partitions *d e f g*, and also the transverse peripheral grooves or seats *i'* for the vertical packing seat strips *j*. See Fig. 7. To provide that  
 5 the said recess in combination with the said device shall be air tight the floor *o* and the roof *p* of the recess extend into the cooling room, in a circular manner, slightly beyond the roof and floor *b* and *c* of the said device  
 10 and the circular wings *q* and *r* having hinges *s* and *s'* are secured between the said roof *p* and floor *o* in a manner to leave room or space between the edges *p'* and *r'* of the said wings to pass articles to and from the device  
 15 and cooling room.

To preserve the frosty granulated quality of ice-cream and to restore said quality to partly used and returned cans of ice-cream spraying or dripping pans *M N* are installed in  
 20 the cooling room *K* and from said pans brine drips upon the ice-cream cans *Q*, as indicated by the dotted lines *R*. See Fig. 1. To supply said pans with brine the pipes *O* and *P* extend therefrom into the reservoir *S* and to  
 25 replenish the reservoir the dripping brine falls into the vats or tanks *T* and *U* and the over-flow pipes *V* and *W*, having adjustable ends, lead the brine into the said reservoir which is again forced into said pans, thus  
 30 keeping up a circulation tending to reduce the temperature of the cooling room. The cans are immersed in the vats or tanks *T* and *U* and the flow of spray or drip is regulated by the valves *X* and *Y*. Any desired num-  
 35 ber of pans and tanks may be used.

In operation, to convey ice-cream or other articles into the cooling room, open the door *J*, place a can *Q* upon the floor *c* of the device and rotate it one-fourth of a revolution and  
 40 place another can and so on until the device is full, close the door *J*, enter the cooling room through the vestibule, and remove the cans from the device; to transfer articles from the cooling room reverse the operation.

See Figs. 1 and 4. To remove the device 45 from its recess, swing the circular wings *q* and *r* apart, for which the hinges *s* and *s'* are provided (see Figs. 1, 2, 4 and 5) then remove the screws *k'''* and *l'''* from the key blocks *k''* and *l''* and move them toward 50 each other disengaging the journals *k* and *l*, thus permitting the removal of the said device.

Having thus described my invention, what I claim as new and desire to secure by Let- 55 ters Patent is—

1. In combination with a cooling room having a bay-window-like off-set; a receiving and delivering device pivoted in said off-set consisting of a disk-like roof *b* having 60 right-angle grooves in its under surface its floor being an inverted duplicate of the said roof, the said grooves having the ends of four partitions secured therein to hold the roof and floor in place and form four receiving 65 places, for the purposes set forth.

2. In combination with a cooling room having in one of its walls a bay-window-like off-set; a rotatable receiving and delivering device consisting of disk-like roof and floor 70 having right-angle grooves cut therein to receive the partitions to form places for receiving articles; removable journals *k* and *l* having right angled heads to secure said device in place and by which it may be removed; 75 journal keys *k''* and *l''* being elongated, three-cornered and each having a seat for the journal head and a screw hole by which to secure the said journal key in the meeting angles of the said partitions to hold the said journals 80 in place, for the purposes specified.

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

DAVID F. SOLLIDAY.

Witnesses:

D. A. DUNCAN,  
 I. M. HOLCOMB.