

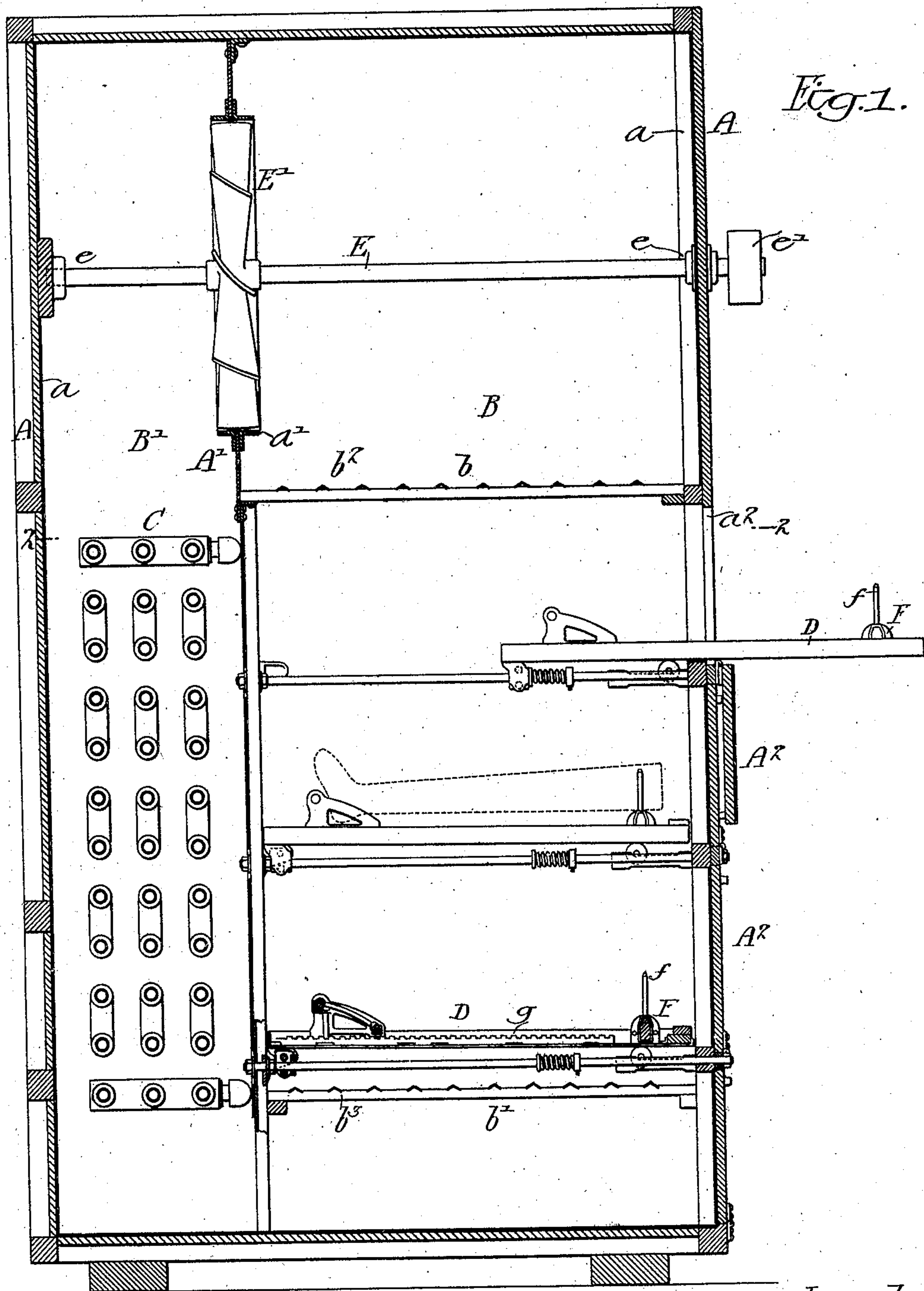
No. 805,935.

PATENTED NOV. 28, 1905.

C. W. SCHWARTZ, JR.  
STOCKING DRYING APPARATUS.

APPLICATION FILED APR. 4, 1904.

2 SHEETS—SHEET 1.



Witnesses:

Augustus Poppes  
Wm. A. Barr.

Inventor:  
Charles W. Schwartz, Jr.  
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## STOCKING DRYING APPARATUS.

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2 SHEETS—SHEET 2.

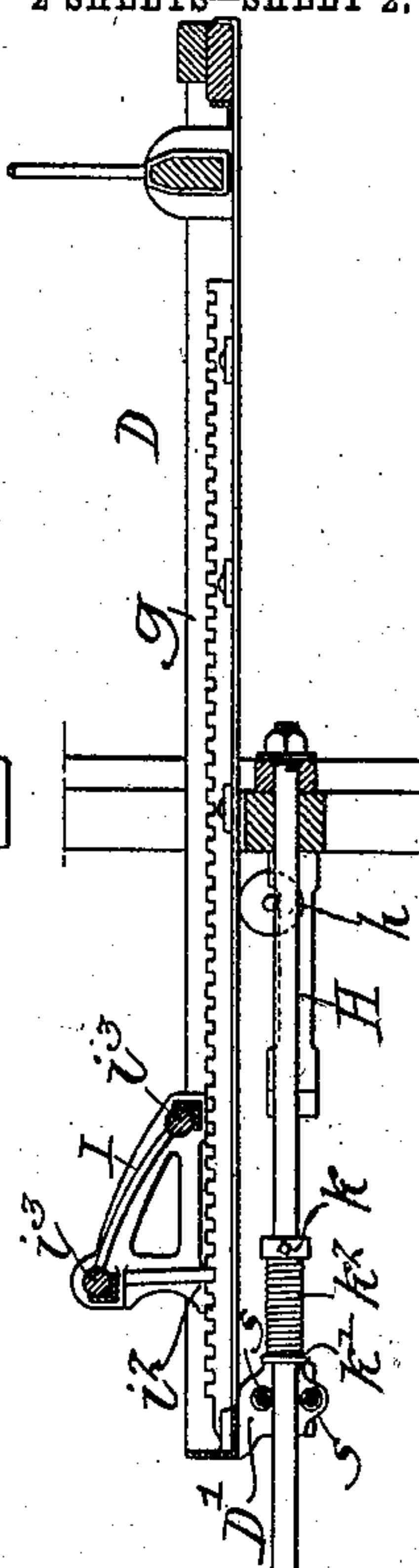
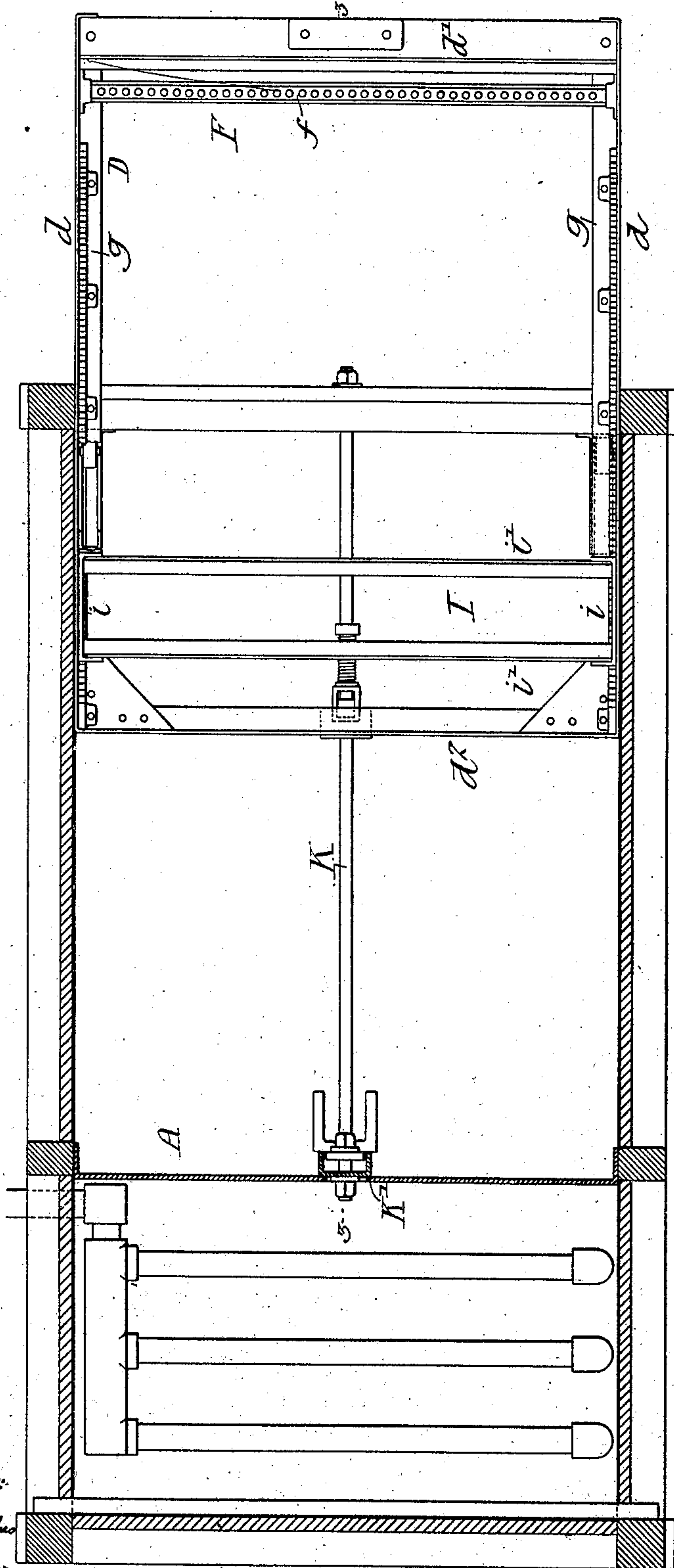
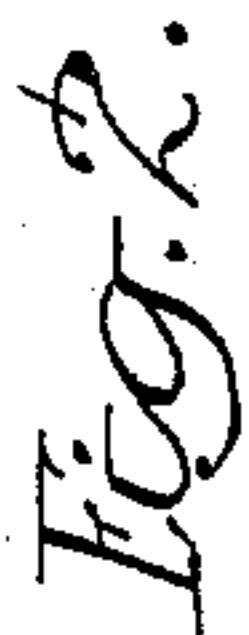


Fig. 3.

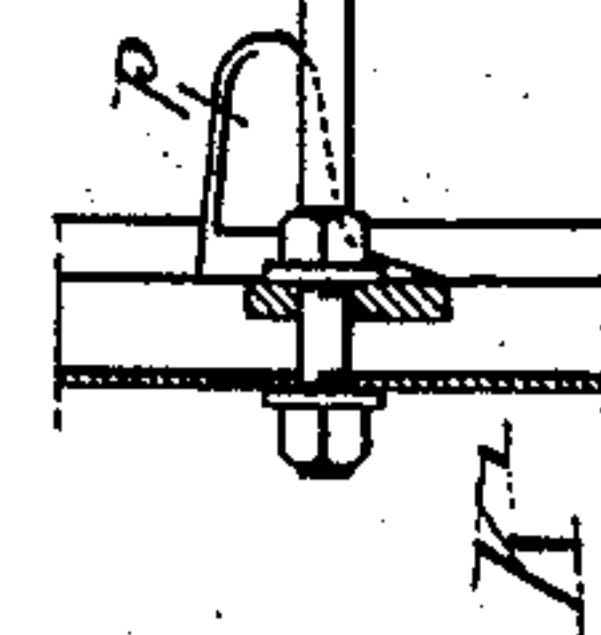
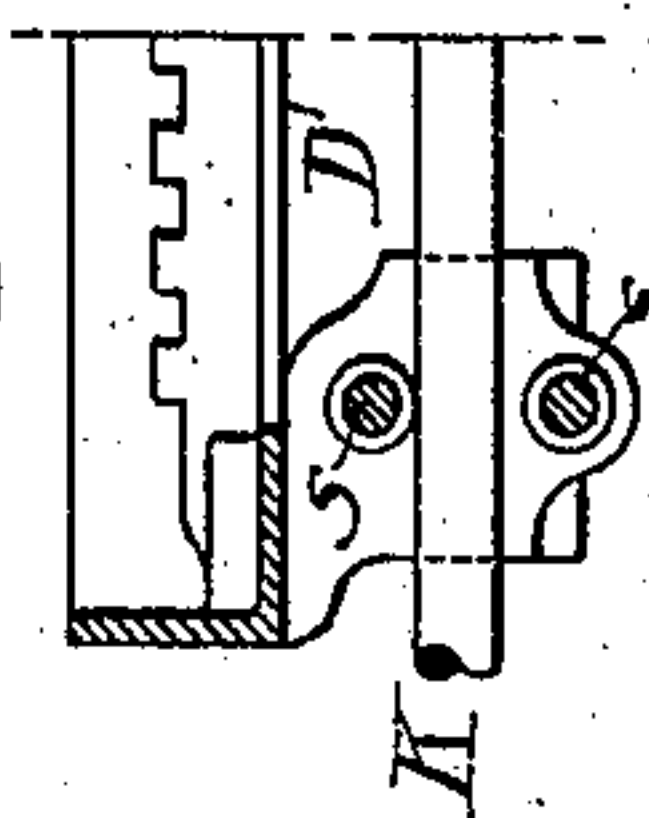


Fig. 7.



Witnesses:

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# UNITED STATES PATENT OFFICE.

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## STOCKING-DRYING APPARATUS.

No. 805,935.

Specification of Letters Patent.

Patented Nov. 28, 1905.

Application filed April 4, 1904. Serial No. 201,468.

*To all whom it may concern:*

Be it known that I, CHARLES W. SCHWARTZ, Jr., a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Stocking-Drying Apparatus, of which the following is a specification.

My invention relates to certain improvements in stocking-drying apparatus for which a patent was granted to Josiah K. Proctor on the 25th day of July, 1893, No. 502,237.

The object of my invention is to simplify the construction of this machine and make it of material which will not warp.

In the accompanying drawings, Figure 1 is a vertical sectional view of my improved stocking-drying machine. Fig. 2 is a sectional plan view on the line 2 2, Fig. 1. Fig. 3 is a section on the line 3 3, Fig. 2. Fig. 4 is an enlarged view of a detail of Fig. 3.

A is the frame of the apparatus, which in the present instance has a metallic lining *a*.

A' is a vertical partition forming two compartments B and B'. In the compartment B' is a coil of heating-pipes C. This coil can be made in any form desired and is for the purpose of providing sufficient heat to dry the stockings in the compartment B. In the partition A' is an opening *a'*, in which is mounted a rotary fan E', carried by a shaft E, mounted in suitable bearings *e e*. On the end of the shaft is a belt-wheel *e'*, by which the shaft is driven. By rotating the shaft E the fan circulates the air through the compartments B B'. In order to distribute the air more evenly, I provide transverse partitions *b b'*, having metallic slats *b<sup>2</sup> b<sup>3</sup>*, respectively, preferably spaced a sufficient distance apart to allow for the free circulation of air. Between the two partitions *b b'* I mount a series of drawers D, which carry the stockings to be dried. The drawers can be moved into and out of the compartment B through openings *a<sup>2</sup>* in the frame A of the apparatus, and doors *A<sup>2</sup>* are provided to close the openings. The drawers are made in the manner shown in Figs. 2 and 3. The drawer D consists of two side members *d d* and end members *d'* *d<sup>2</sup>*. In the front of the drawer extending from one side member to another is a cross-bar F, on which is a series of vertical pins *f*, spaced a sufficient distance apart to allow

for the insertion of a stocking-board with a stocking thereon. The side members *d d* are in the form of angle-irons and have racks *g g* secured thereto.

I is an adjustable frame for supporting the foot end of the stocking. This frame can be adjusted on the side members, so as to accommodate stockings of different lengths. The frame is made of two side members *i i* and transverse angle members *i'*, and on each side member is a lug *i<sup>2</sup>*, which enters a notch in the rack *g*, so that by lifting the frame I and adjusting it toward and from the cross-bar F it can be placed in proper position and readily locked to the drawer. *i<sup>3</sup> i<sup>3</sup>* are bars, preferably of wood, on which the foot end of the stockings rest.

The side members of the drawer D rest upon rollers *h*, having their trunnions supported on rails H, secured to the side of the drying-machine and in any suitable manner, the rails being of such a length that the rollers can travel on the rails a certain distance as the drawer is moved into or out of the apparatus, and I guide each drawer by a central rod K, which is attached to a U-shaped standard K' at the inner end and to the frame of the apparatus at the outer end. On the drawer is a bearing D', having rollers *s s*, one resting above the rod and the other below it, as illustrated in Fig. 3 and in the enlarged view, Fig. 4. On the rod is an adjustable collar *k*, secured to the rod by a set-screw or other fastening, and mounted between a plate *k'* on the rod and this collar is a coiled spring *k<sup>2</sup>*, which acts as a buffer when the drawer is drawn out, so that the outward movement of the drawer is limited.

Secured to the standard K' is a bracket *p*, having a tapered upper face, upon which rides the end of the drawer when it is forced into the casing. By this arrangement sufficient friction is placed upon the drawer that it will not accidentally slide out when once forced into position. Both the buffer and the friction-bracket are preferably used, as by mounting a drawer of such a size on friction-rollers and a central rod it moves very easily, and I provide this device in order to prevent jar.

The operation of the apparatus is as follows: The frames I of each drawer are adjusted for the proper length of stocking to be



dried, and after adjustment the stockings, which are mounted on boards in the usual manner, are placed in the space between the vertical pins  $f$  of the bar  $F$ , with the foot portion resting on the cross-bars  $i^3$  of the frame  $I$ , as indicated in Fig. 1. When the drawers are filled, the doors  $A^2$  are closed, power is applied to the frame  $E$ , and the circulating-fan will circulate the hot air from the compartment  $B'$  into and through the compartment  $B$ , the cross-bars  $b^2$  of the partitions  $b b'$  distributing the air evenly throughout the drawers, so that the stockings in the several drawers will be evenly dried. As soon as the stockings are dried the doors are opened and the drawers pulled out, as illustrated in Fig. 1, and the stockings removed.

It will be understood that while I have only shown the apparatus provided with three drawers, more than three drawers may be used, and an apparatus having two or more sections of drawers may be used, depending upon the output of the factory in which the apparatus is installed.

While I have shown heating-coils, any suitable heat-radiating devices may be used for providing heat to the apparatus.

I claim as my invention—

1. The combination in a stocking-drying apparatus, of a drawer made in the form of an open frame having a cross-bar at the front end of the drawer provided with vertical pins, an adjustable frame mounted on the drawer, side rails, rollers mounted on the side rails and supporting the sides of the drawer, a central bar and a bracket on the drawer engaging the bar, substantially as described.

2. The combination of a frame, rails on the side of the frame a central bar secured to the frame a drawer having an open center,

rollers mounted between the rails and the side members of the drawer, a bracket on the rear member of the drawer having rollers, one mounted above the bar and the other below it, substantially as described.

3. The combination of a frame, side rails and a central bar carried by the frame, a drawer having an open center, rollers mounted between the rails and the side members of the frame, a bracket carried by the drawer and engaging the bar, and a spring-buffer on the bar, substantially as described.

4. The combination of a frame, a drawer mounted on said frame, a central rod for guiding the drawer, and a bracket secured to the rear portion of the frame and so arranged in respect to the drawer that when the drawer is forced in to its full extent it will ride upon the bracket, substantially as described.

5. The combination in a stocking-drying apparatus, of a frame having a metallic lining, a metallic partition forming two compartments a heating apparatus in one compartment, and a series of metallic drawers in the other compartment, a circulating-fan in the partition, a series of rods for the drawers, each drawer having a bearing with two rollers engaging one of said rods, and an adjustable metallic frame carried by each drawer acting with a cross-bar on the drawer to support the stockings, substantially as described.

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

CHARLES W. SCHWARTZ, JR.

Witnesses:

WILL. A. BARR,  
JOS. H. KLEIN.