

No. 786,602.

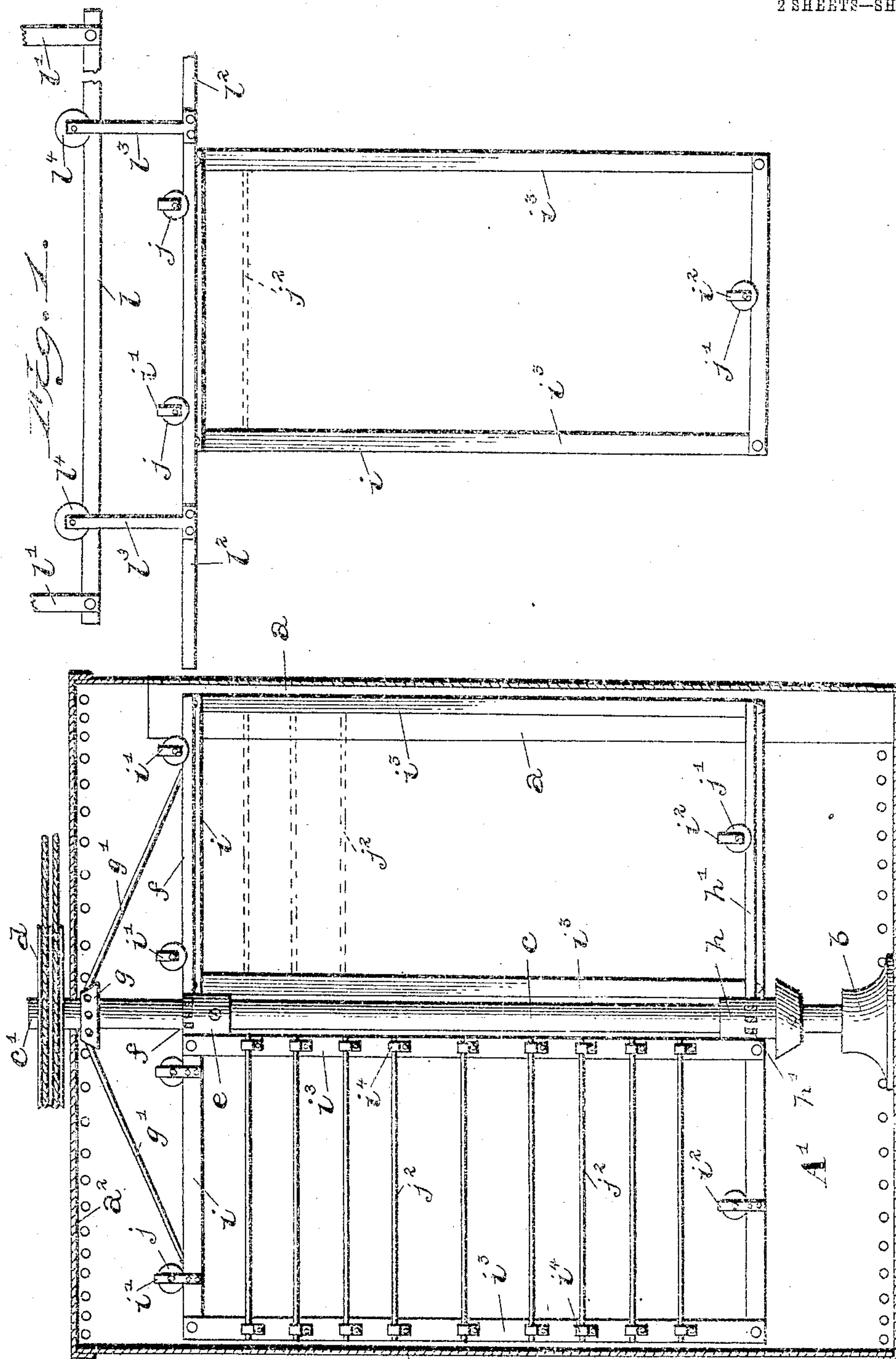
PATENTED APR. 4, 1905.

E. H. SAWYER, JR. & H. JUDIK.

SMOKE HOUSE.

APPLICATION FILED MAY 9, 1904. RENEWED MAR. 7, 1905.

2 SHEETS—SHEET 1.



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2 SHEETS—SHEET 2.

Fig. 3.

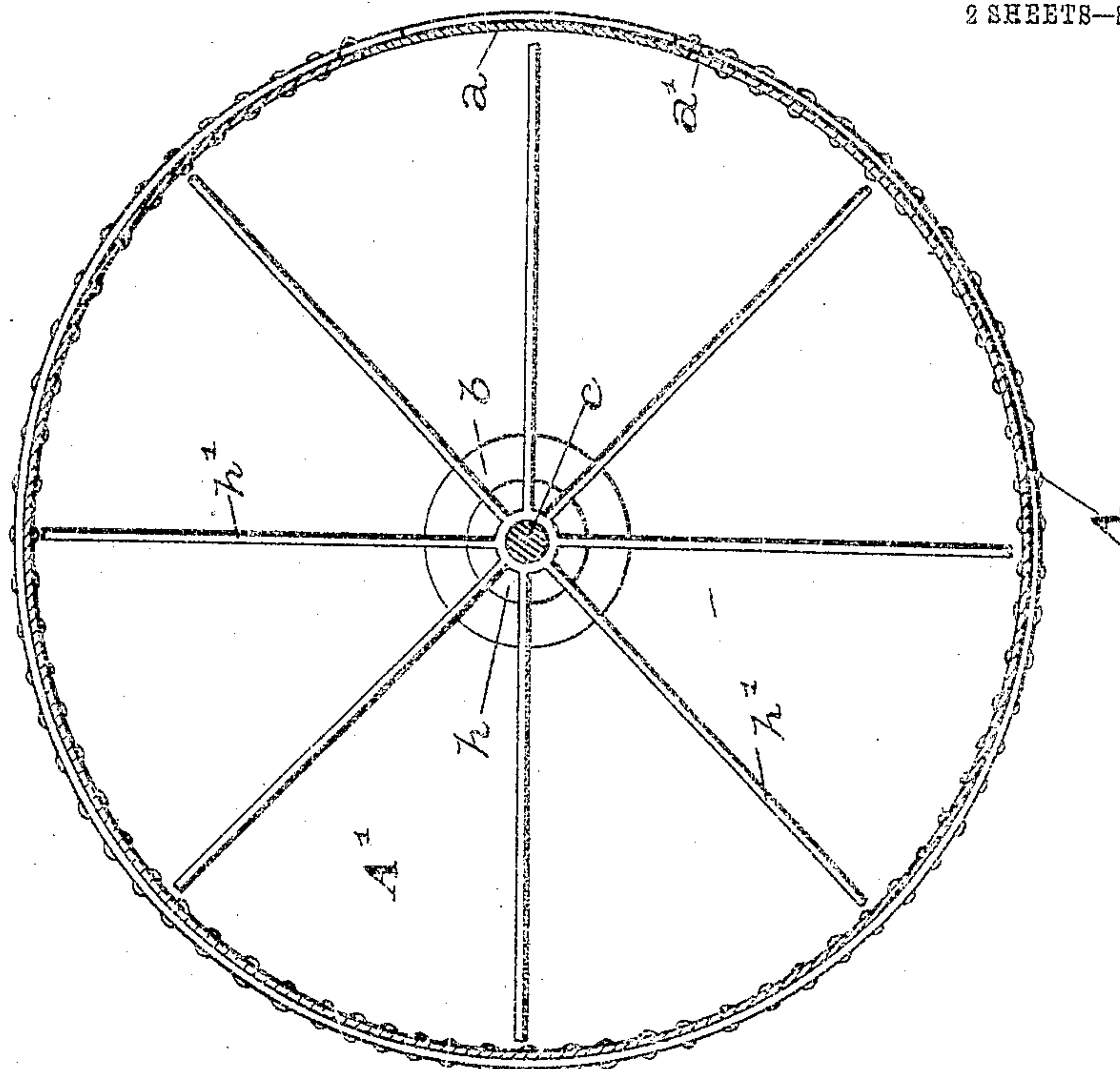
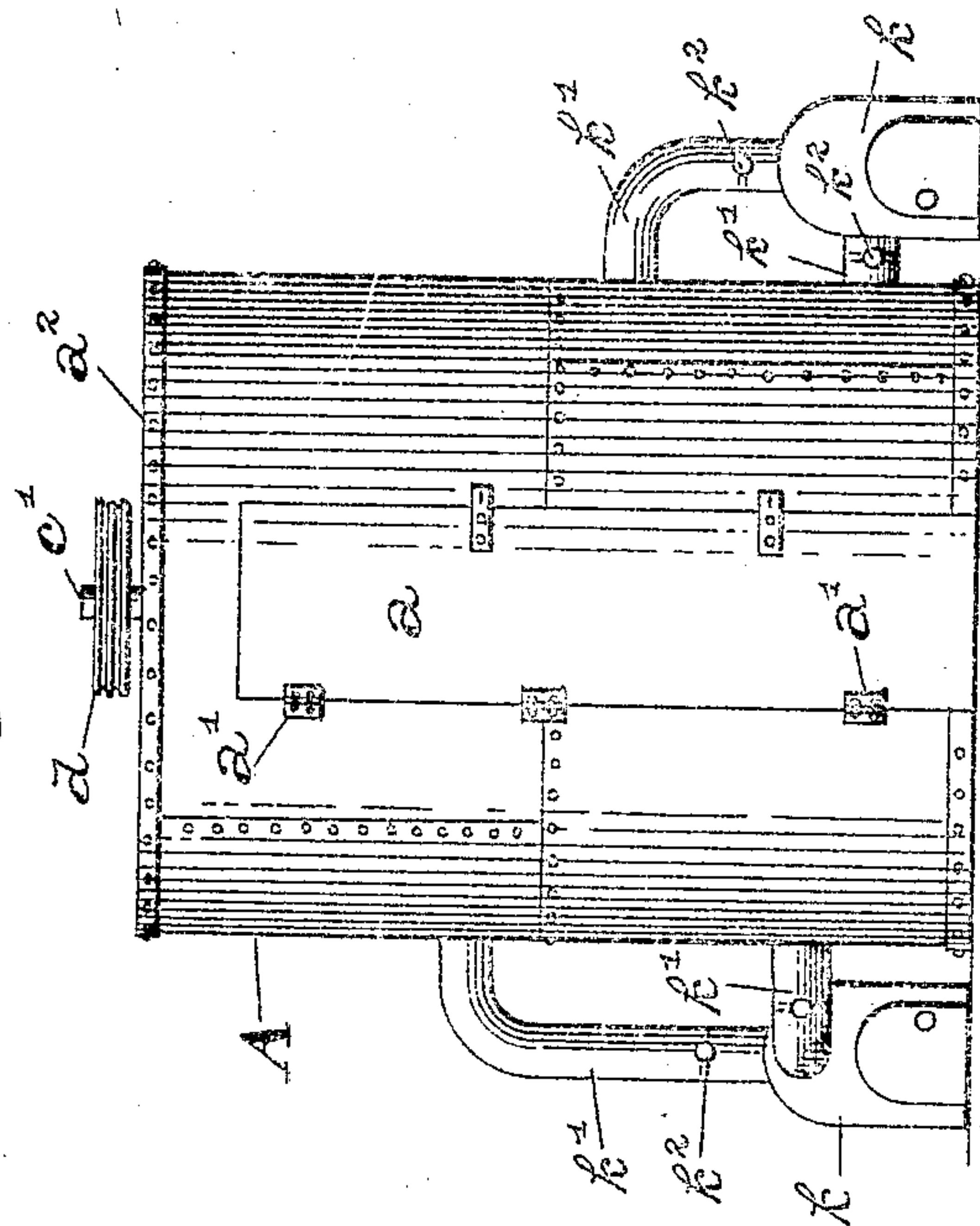


Fig. 2.



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# UNITED STATES PATENT OFFICE.

EDWARD H. SAWYER, JR., AND HENRY JUDIK, OF BALTIMORE,  
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## SMOKE-HOUSE.

SPECIFICATION forming part of Letters Patent No. 786,602, dated April 4, 1905.

Application filed May 9, 1904. Renewed March 7, 1905. Serial No. 248,939.

*To all whom it may concern:*

Be it known that we, EDWARD H. SAWYER, Jr., and HENRY JUDIK, citizens of the United States, residing at Baltimore, State of Maryland, have invented certain new and useful Improvements in Smoke-Houses, of which the following is a specification.

This invention relates to smoke-houses for curing meats.

The object of the invention is to provide a simple construction of smoke-house in which the meats to be smoked may be sustained by suitable frames, which latter may be revolved continuously during the smoking operation in order that when removed from the house the meats will be uniformly smoked.

Another object of the invention is to provide a construction whereby the device may be rendered portable and readily shipped.

Another object of the invention is to provide a construction whereby the meats to be smoked may be quickly put into and removed from the smoking-chamber without the necessity of drawing the fires, thereby increasing the capacity or output.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 illustrates a sectional elevation of the improved smoke-house and a side elevation of the exterior trackway. Fig. 2 illustrates a side elevation of the smoke-house and the stoves on the exterior, and Fig. 3 illustrates a horizontal sectional view through the smoke-house just above the lower radiating track-rails.

In the drawings, A designates a cylindrical shell formed or constructed in any suitable manner to form a circular chamber A' and provided at one side with a door a, which is preferably hung on hinges a' in order that it may readily be opened and closed. A step-bearing b is provided at the bottom of the shell and has a central position with respect to the surrounding walls of said shell, and said bearing receives the lower end of a vertical shaft c, which extends centrally through the chamber A' and also through an opening in the top wall a". The outer or projecting end c' of said shaft carries one or more pulleys d, by means

of which the shaft may be revolved. A collar e has position on the shaft near the upper end and is fixed thereto in some suitable manner, and a plurality of track-arms f radiate from said collar and extend in a horizontal plane and terminate at a point adjacent the circular wall of the shell. A collar g is also secured on the shaft and has position above the collar e, and a plurality of brace-rods g' extend downwardly in an inclined direction from said collar g, and the lower end of each of said rods is secured to the outer free end of one of the radiating track-arms f and serves to support the same and prevent sagging. A collar h is also rigidly secured on the lower end of the shaft just above the step-bearing b, and this latter collar is also provided with or supports a plurality of radiating track-arms h', which, like the arms f, extend in a horizontal plane toward the circular wall of the shell.

A rectangular frame i is provided at one end with upwardly-extending arms i', which carry rollers j, and the opposite end of said frame is provided with an arm i'', which carries a roller j'. The two longitudinal side bars i''' of said frame are each provided with a plurality of supporting hooks or brackets i'', which support cross-rods j'', on which the meat to be treated is hung.

On the exterior of the shell, and preferably at opposite sides, are two stoves k, each of which is provided with one or more pipes k', which enter the vertical wall of the shell and convey smoke or heat from the said stove to the chamber A. The pipes k' are each provided with a damper k''.

A stationary track-rail l is suitably suspended by arms l' above the door a, and a swinging rail-section l'' is suspended from said track-rail l by suitable arms l''' and rollers l''. This swinging rail-section l'' has position at the entrance to the shell and in the same horizontal plane with the ends of the radiating track-arms f on the interior of the shell. By this construction the swinging rail-section l'' may be moved laterally in order to open or close the door a, and when the said door is open the said rail-section may be moved toward



the shell by means of the rollers  $L^4$  and made to register successively with the ends of the track-rails  $f$  in the chamber.

In the operation the meat to be smoked or treated is first placed on the cross-rods  $j^2$ , and the latter are then hung on the hooks or brackets  $L^4$  on the frames  $i$ . This operation of placing the meat on the frames is accomplished on the exterior of or away from the shell and the frames  $i$ , and the meat thereon is then rolled while suspended from overhead tracks and moved onto the swinging rail-section  $L^2$  and from the latter is moved into the chamber  $A'$  and suspended on one of the track-arms  $f$ . The roller  $j'$  on the lower end of the frames  $i$  rolls on top of one of the track-arms  $h'$  at the lower end of the shaft. It will thus be seen that the frames are supported by the upper track-arms  $f$  and that the lower track-arms  $h'$  prevent the lower end of the frames from swinging out of vertical plane when the arms and frames are revolved.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a device of the class described the combination with a shell, of a shaft extending through said shell; a plurality of track-arms near one end of said shaft and sustained by said shaft and extending toward the wall of said shell; frames provided with rollers which engage said track-arms, and means for engaging the lower ends of said frames to hold the same against lateral swinging motion.

2. In a device of the class described the combination with a shell, of a shaft extending through said shell; a plurality of upper and lower track-arms sustained by said shaft; frames supported between said upper and lower track-arms, and means on said frames for engaging said track-arms.

3. In a device of the class described the combination with a cylindric shell; of a shaft extending vertically through said shell; a plurality of radiating track-arms sustained by said shaft at the upper end of the shell; a plurality of track-arms sustained by said shaft at the lower end of said shell, and frames provided with rollers at opposite ends and arranged to be supported between said upper and lower track-arms by said rollers.

4. In a device of the class described the combination with a shell provided with an opening, of a shaft extending through said shell; a plurality of track-arms sustained by said shaft and extending in a horizontal direction toward the cylindric wall of said shell; a movable track-section adjacent the opening in said shell and arranged to be registered successively with said track-arms, and frames provided with rollers which engage said rails.

In testimony whereof we affix our signatures in presence of two witnesses.

EDWARD H. SAWYER, JR.

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