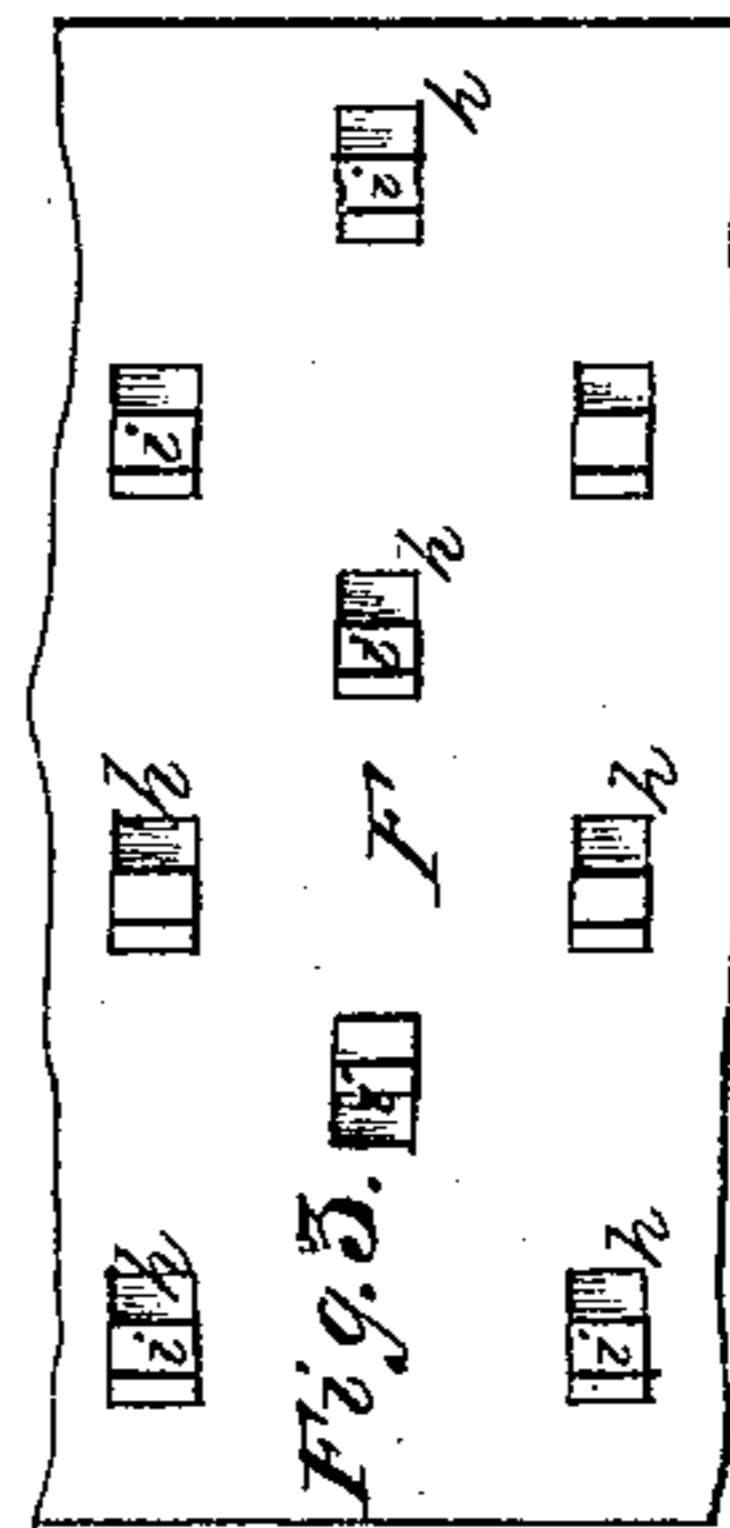
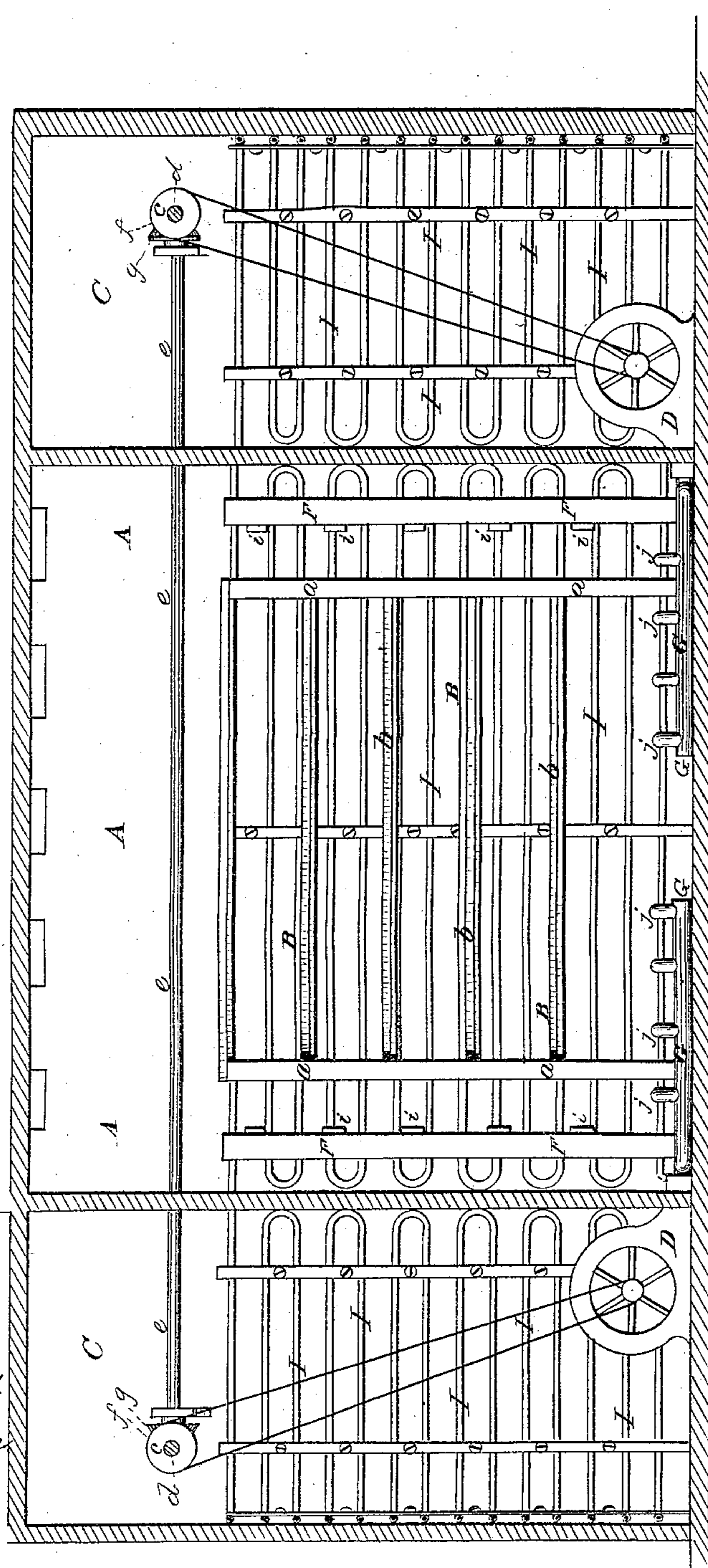


**J. BARBANSO.**  
**Glue Driers.**

No. 153,148.

Patented July 21, 1874.

Fig. 1.



WITNESSES.

*J. P. Crawford*  
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INVENTOR.

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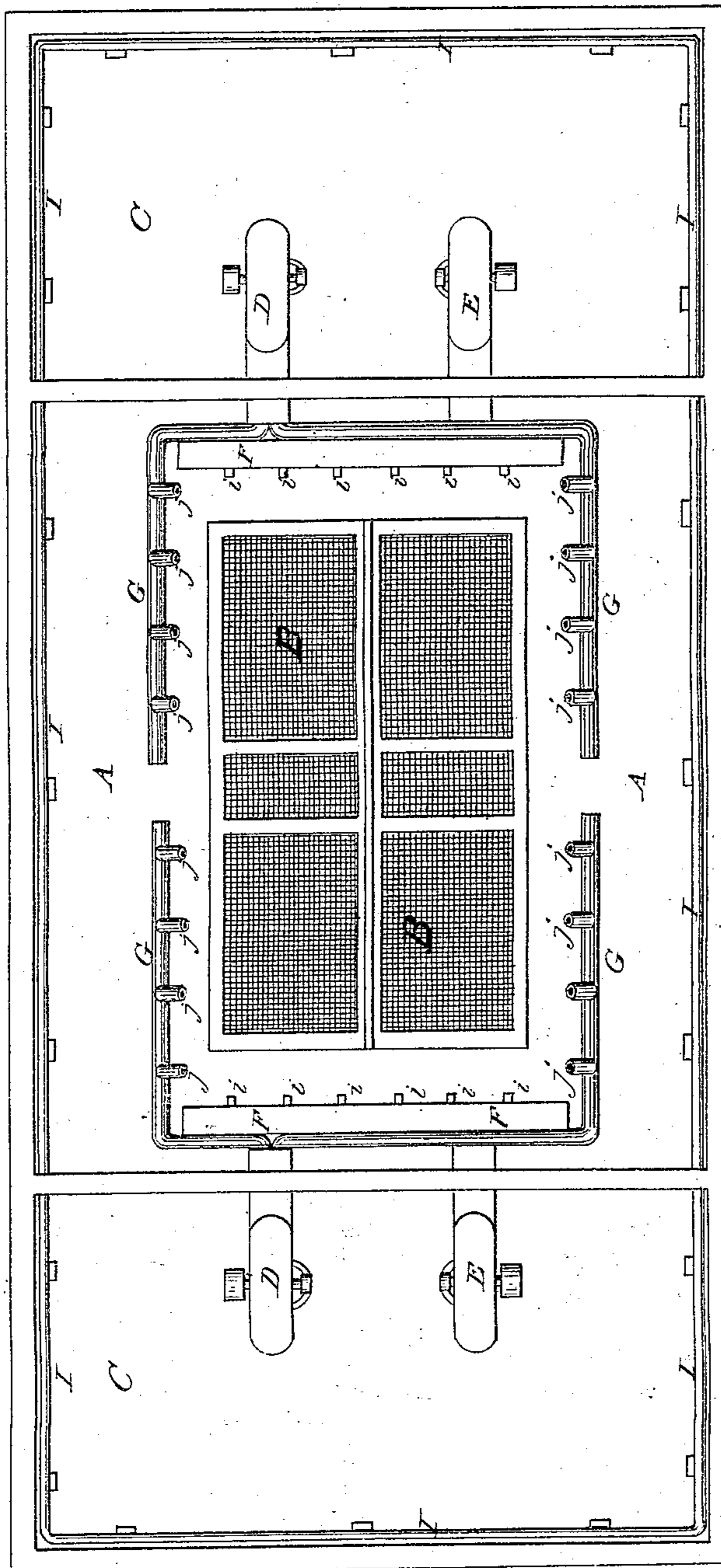
ATTY.

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FIG. 2.



Plan.

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# UNITED STATES PATENT OFFICE.

JOHN BARBANSON, OF NEW YORK, N. Y.

## IMPROVEMENT IN GLUE-DRIERS.

Specification forming part of Letters Patent No. **153,148**, dated July 21, 1874; application filed May 5, 1874.

*To all whom it may concern:*

Be it known that I, JOHN BARBANSON, of the city, county, and State of New York, have invented an Improved Apparatus for Drying Glue, of which the following is a specification:

In the manufacture of glue the most precarious operation is that of drying the cakes, and when performed under different states of weather and varying temperature, seriously affects the quality of the article. During the first two or three days of the drying process a slight change of weather may injure the cakes so as to require their remelting, or, in some instances, render them worthless.

Prior to my invention, so far as known to me, there were no means for maintaining a steady temperature and current of air between and around the cakes. To create a current of air to dry them, they were spread in rooms the sides of which were composed of flaps or blinds capable of being opened and closed to allow the wind to blow through the building.

My invention relates to the apparatus used for drying cakes of glue; and consists in a novel construction, combination, and arrangement of parts, which have for their object to effectually dry the glue under all meteorological changes, by maintaining a steady temperature in the drying-apartment, and a draft of air around the cakes of glue, as will be fully set forth hereafter.

Figure 1 is a vertical longitudinal section of a room furnished with my drying apparatus. Fig. 2 is a plan view of the same. Fig. 3 is a part in detail.

A represents a room, in which the drying-frame B is situated. This frame consists of uprights *a*, from which, in practice, pins project, on which the net-frames *b* are supported. C C are antechambers off the room B, in which the blowers D E are situated. These blowers are driven by the pulleys *c c* on the shaft *d*, which is driven, by the shaft *e*, through the gears *f g*. F F are two flat, square boxes, situated at each end of the drying-frame B, at a short distance from it, and connected with the blowers E E. The side of these boxes facing the drying-frame is perforated with several openings or vents, *h h*, which can be opened or closed by means of slide-valves *i*, as shown

in detail at Fig. 3. G G are tubes proceeding from the mouths of the blowers D D, and extending along the flooring or wall, partially around the drying-frame. These tubes are provided, at intervals along them, with nozzles or orifices *j*, directed toward the drying-frame. I I are a series of heating-pipes, arranged against the walls of the apartments, and connected with a steam-boiler.

The room B need not be furnished with heating-pipes, as the air will be thoroughly dried and heated in the heating-chambers C before entering the drying-room A.

The glue is first cut into layers by the ordinary process, and laid out on the net-frames *b*, which are then slid in the frame B. The blast is now turned on, and a current of air created, which circulates between the cakes, and dries them.

In cold weather the air in the apartment is warmed by means of the pipes I I, while in warm weather the blast will cool the glue, and prevent its melting and running.

The valves *i*, regulating the openings in the boxes F, may be arranged at pleasure to direct the blast on any shelf or portion of the drying-frame.

Having thus described my invention, what I claim is—

1. The combination, with the drying-frame B, of the blowers D and blast-pipes G, situated around the drying-frame B, and provided with apertures *j*, constructed and operating substantially in the manner described.

2. The combination, with the drying-frame B, of the blowers D, blast-pipes G, situated around the drying-frame B, and provided with orifices *j*, and the heating-pipes I, constructed and operating substantially in the manner described and specified.

3. The combination, with the drying-frame B, of the blowers E D, pipes G, provided with nozzles *j*, and the blast-distributing box F, provided with orifices and valves for regulating the blast and directing it to any portion of the drying-frame, constructed and operating substantially in the manner described and specified.

JOHN BARBANSON.

Witnesses:

E. H. JOHNSON,

J. P. CRAWFORD.