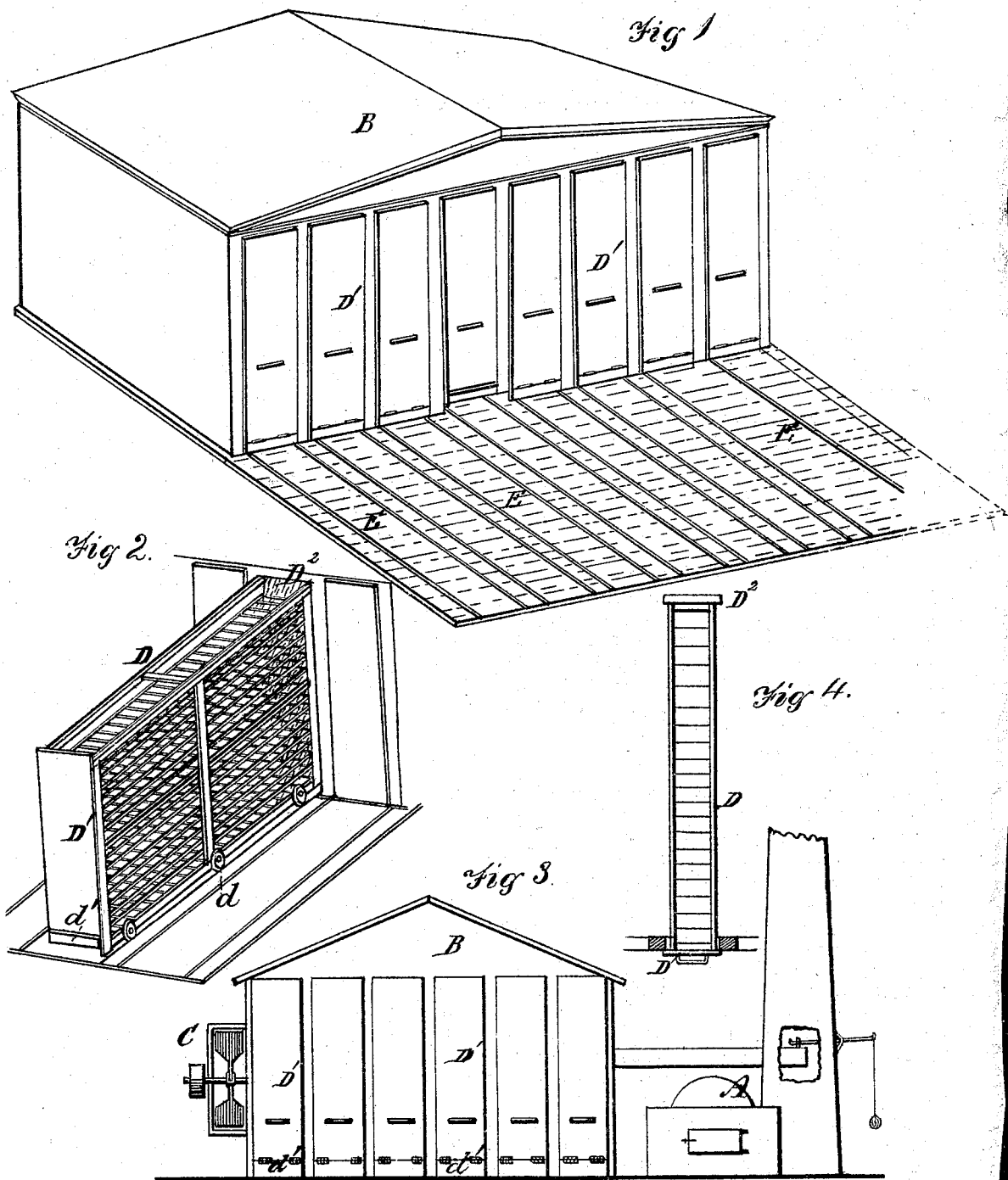


E. A. SEELEY.
Paper-Driers.

No. 143,999.

Patented Oct. 28, 1873.



Witnesses
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A. Ruppert.

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UNITED STATES PATENT OFFICE.

EDMUND A. SEELEY, OF SCOTCH PLAINS, NEW JERSEY.

IMPROVEMENT IN PAPER-DRIERS.

Specification forming part of Letters Patent No. **143,999**, dated October 28, 1873; application filed January 27, 1873.

To all whom it may concern:

Be it known that I, EDMUND A. SEELEY, of Newark, in the county of Essex and State of New Jersey, have invented a certain Improvement in Apparatus for Drying Paper Boards, of which the following is a specification:

This invention relates to an apparatus for drying paper boards in which the boards, spread upon racks, are placed in a room and dried by currents of hot air passed through such room. The object of my invention is both to facilitate and expedite the necessary process of inspecting and exchanging the paper boards, and to so arrange the parts that no cold air will be admitted to the hot room while the boards on any one or more of the racks are being inspected, shifted, turned, or exchanged. My improvement consists in placing the racks upon tramways, which extend beyond the drying-room, and so constructing the racks that when drawn out their full length their end boards will close their respective passage-ways in the front wall of the hot-room.

Figure 1 is a perspective view of the hot-room, containing a series of racks, and the tramways on which the racks travel. Fig. 2 is also a perspective view, showing one of the racks drawn out its full length. Fig. 3 is a front elevation of a complete drying apparatus constructed according to my invention. Fig. 4 is a plan view of one of the racks.

The same letters of reference are used in all the figures in the designation of identical parts.

The air is heated in a suitable furnace, A, and conducted through a pipe or pipes into the drying-room B, through which it is drawn by a suction-fan, C, in the ordinary manner. The floor of the drying-room is extended beyond its front wall a sufficient distance to support the racks D when drawn out their full length. For each rack a passage-way is made in the front wall of the drying-room, just sufficiently broad and high to accommodate the racks, which are supported, by rollers or wheels *d*, upon tramways E, placed upon the floor of

the hot-room. The racks, made as high as a man can conveniently reach from the floor, consist of open frames, with solid end boards D¹ and D², and the shelves, upon which the paper boards are to be placed, are made of cord, wire, or slats, and are arranged just far enough apart to receive the boards and allow the air to pass over and underneath them. The front end board D¹ of each rack closes the passage-way in the front wall of the hot-room when the rack is pushed entirely into the hot-room, and the rear end board D² closes such passage-way in like manner when the rack is drawn out its entire length, as shown in Fig. 2, so that the boards can be duly inspected and handled without admitting cold air into the hot-room. The lower end of each front board D¹ consists of a hinged flap, *d'*, which is turned up when the rack is to be drawn out to avoid its scraping along the floor, and when turned down is intended to make a tight joint with the floor. The tramways reach from the hot-room to the end of its outwardly-extended floor, and thus form suitable supports and guides for the racks in their movements in and out.

The racks may be made to slide on suitably-constructed ways, but I prefer to mount them on rollers in the manner shown and described.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. An apparatus for drying paper boards, composed of the following elements, viz., a drying-chamber, a rack which in either of its extreme positions closes its passage-way in the front wall of the drying-chamber, and a tramway, or its equivalent, extending beyond the drying-chamber, to facilitate the transit of the rack.

2. The rack D, the end board D¹ of which has a hinged flap, *d'*, substantially as and for the purpose specified.

EDMUND A. SEELEY.

Witnesses:

W. M. GOODING,
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