

A. ERKENBRECHER.

Drying Starch.

No. 68,294.

Patented Aug. 27, 1867.

Fig. 3.

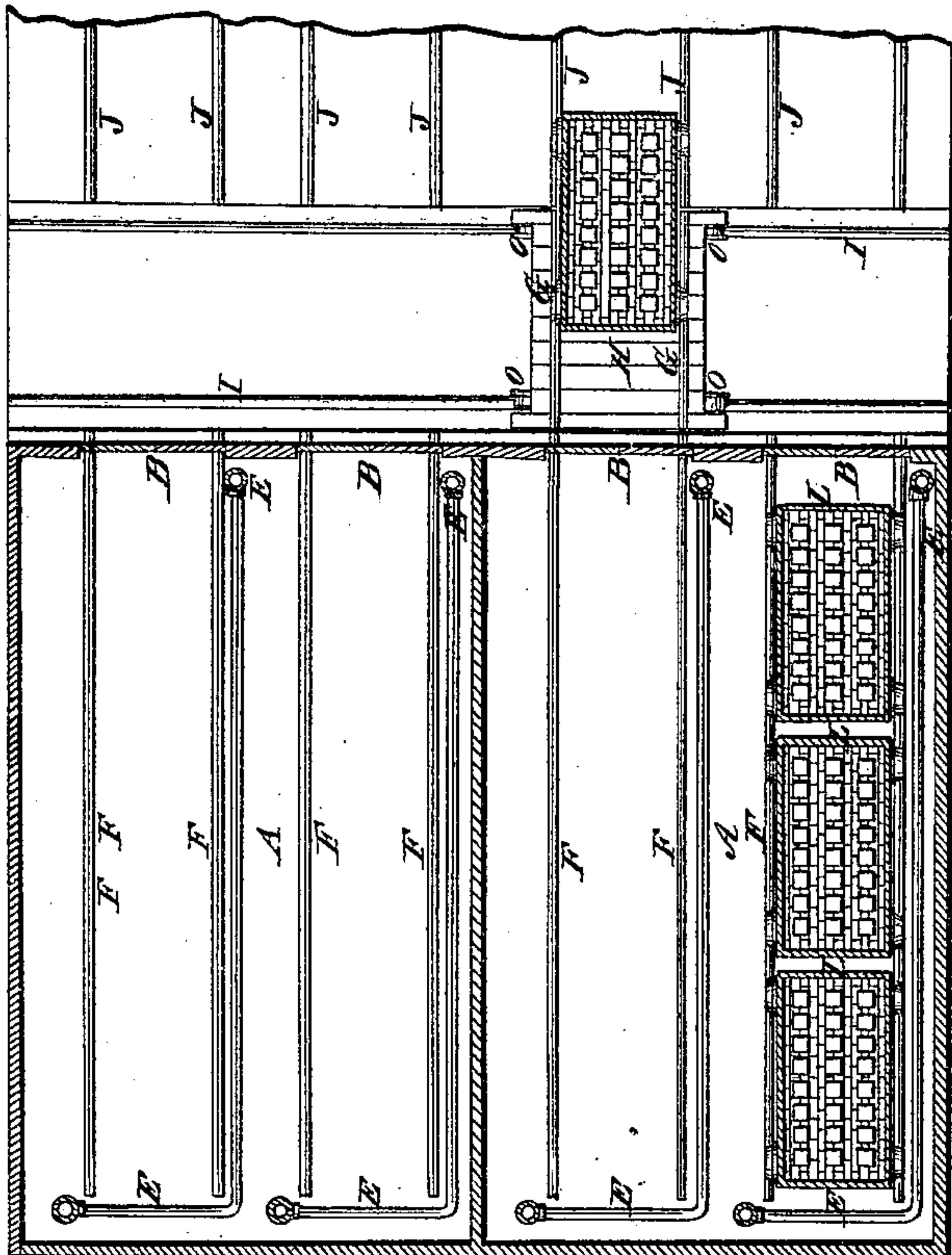


Fig. 1.

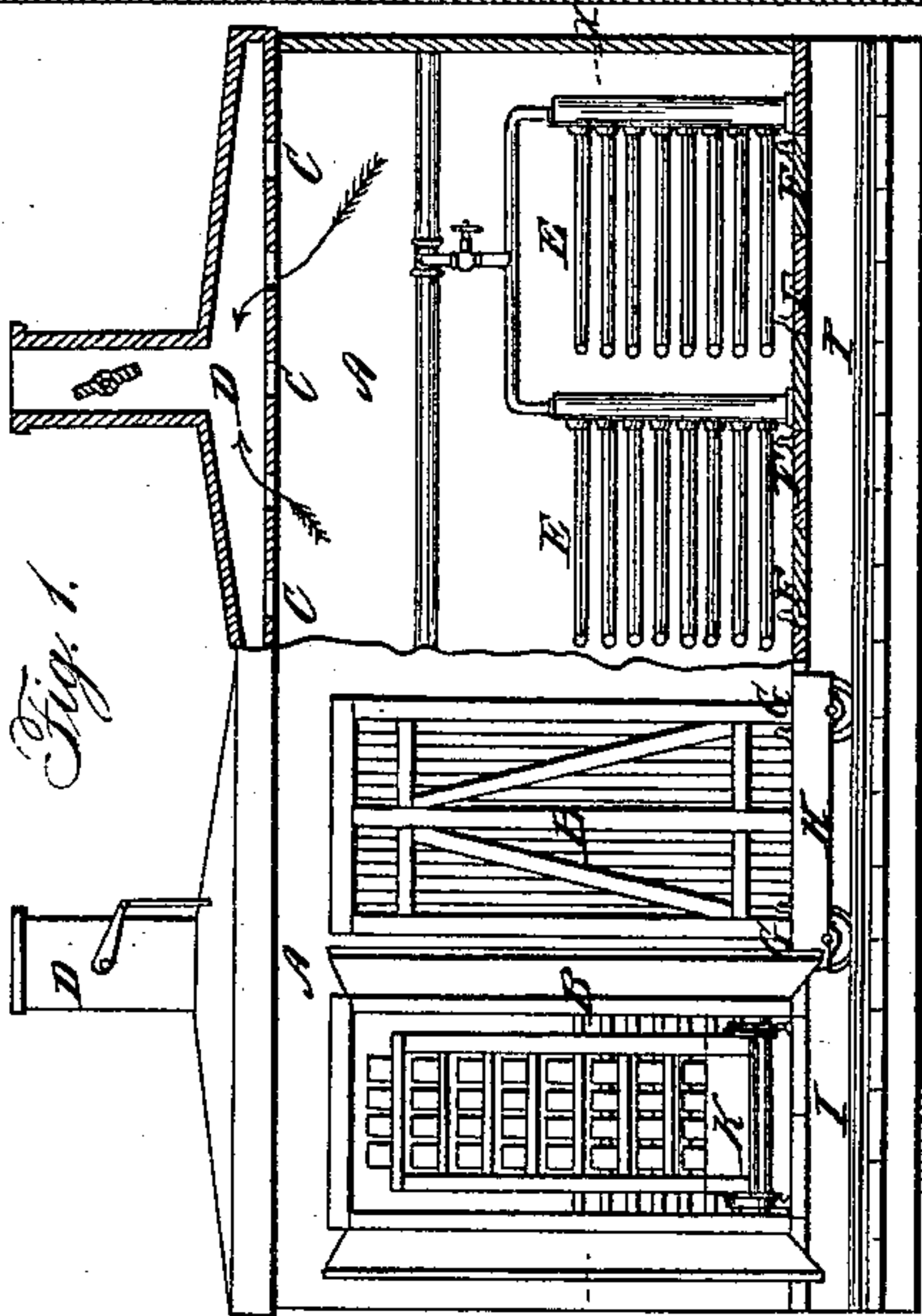


Fig. 2.

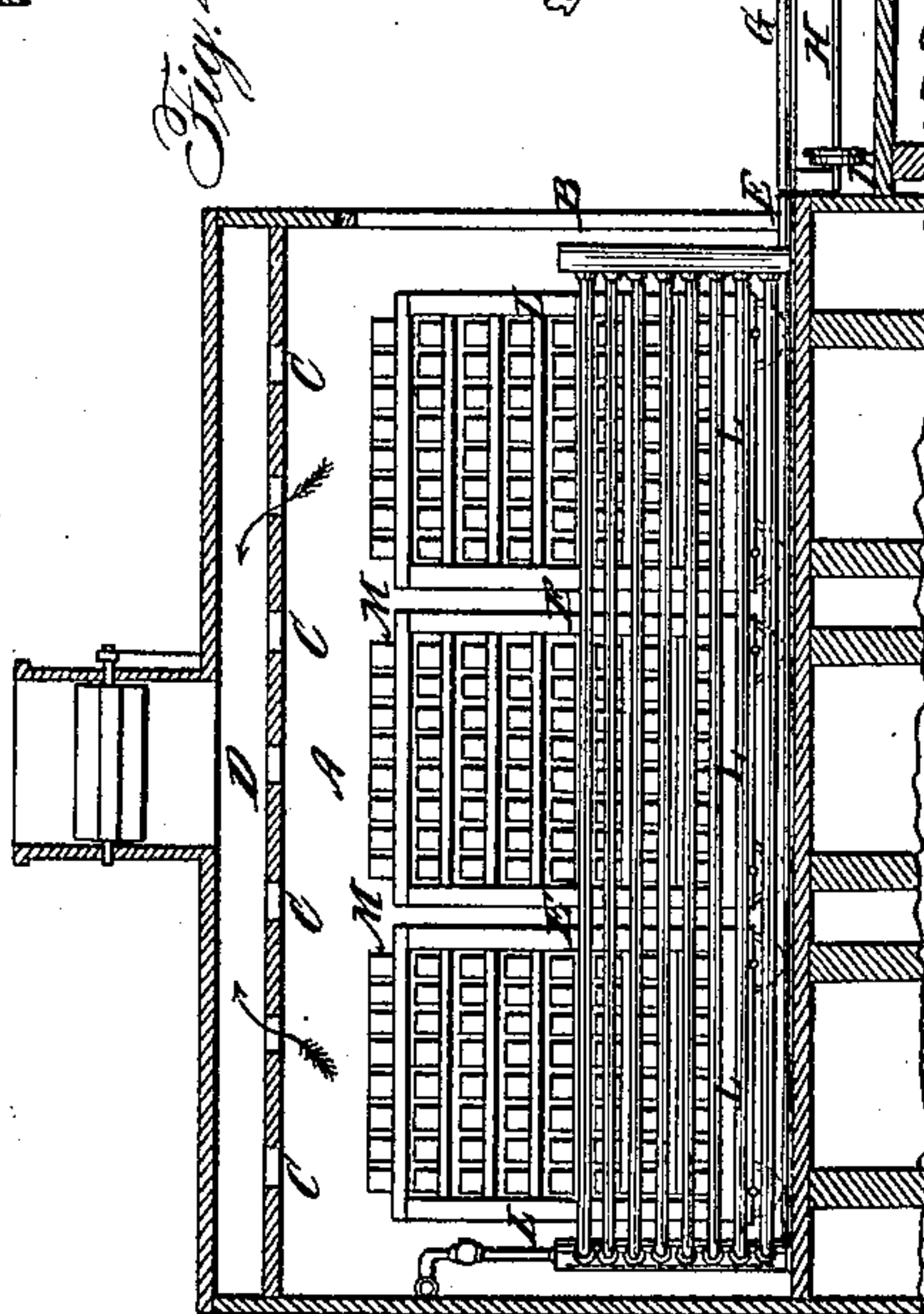


Fig. 4.

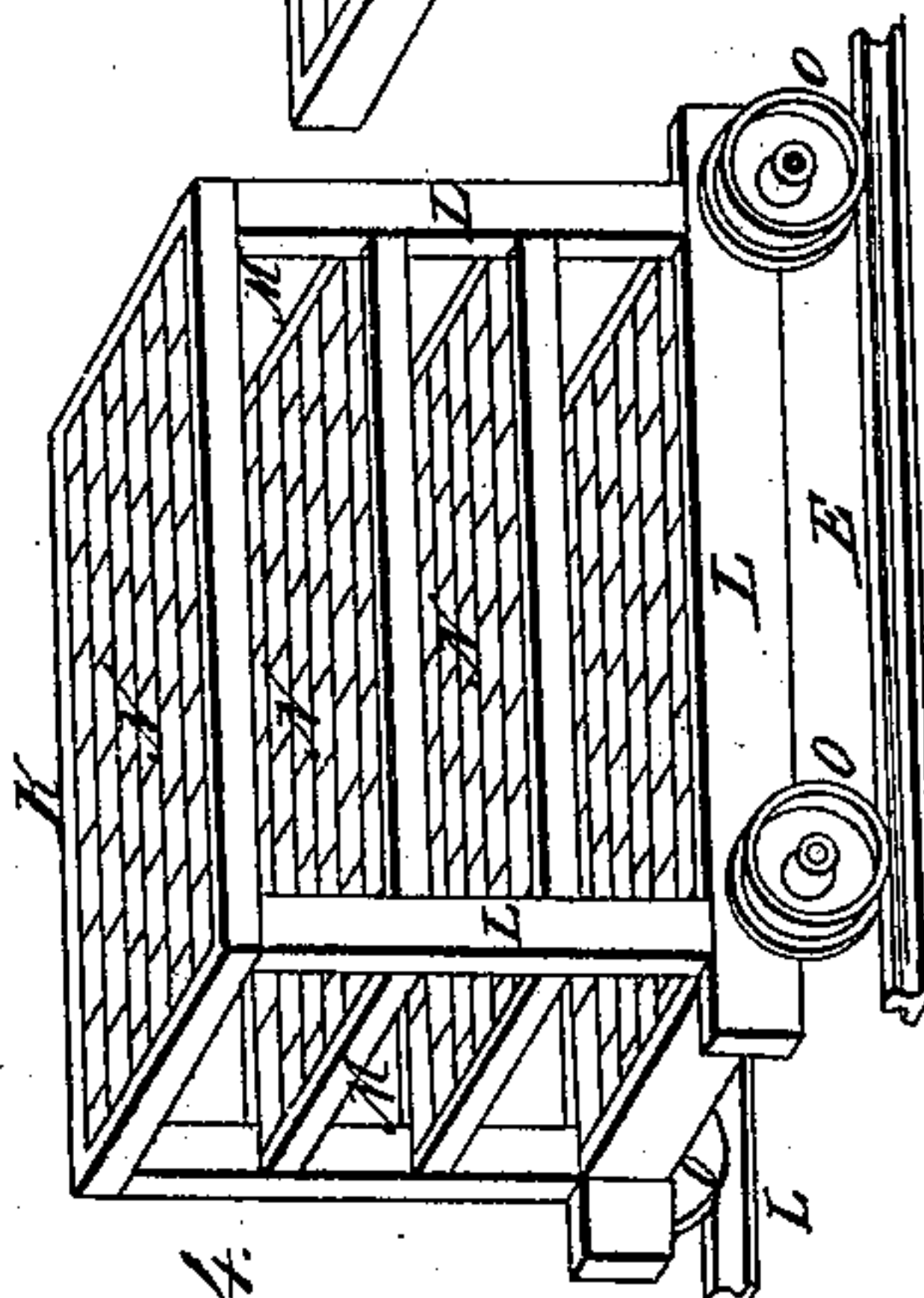
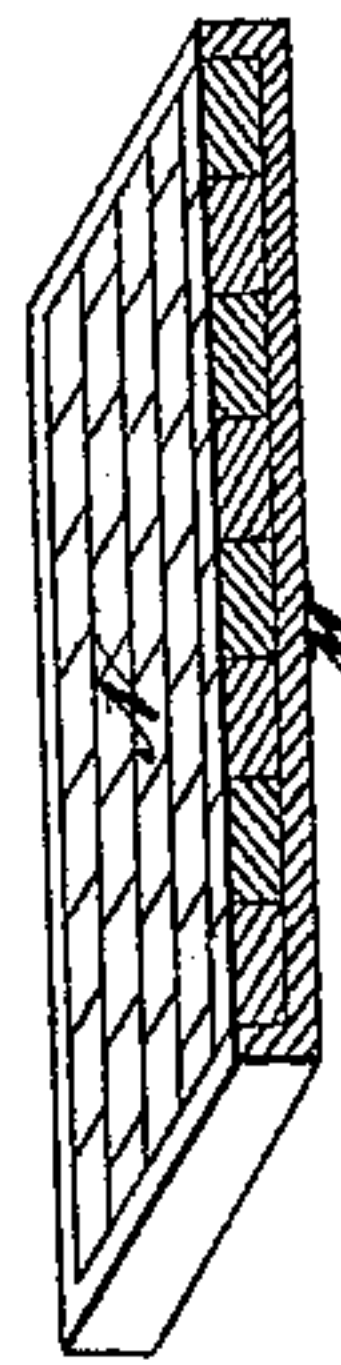


Fig. 5.



Witnesses:

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# United States Patent Office.

ANDREW ERKENBRECHER, OF CINCINNATI OHIO.

*Letters Patent No. 68,294, dated August 27, 1867.*

## IMPROVED APPARATUS FOR DRYING STARCH.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO WHOM IT MAY CONCERN:

Be it known that I, ANDREW ERKENBRECHER, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Starch-Drying Apparatus; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

My invention relates to an arrangement of movable racks, trucks, drying-chambers, ventilators, and their accessories, for the convenient, effective, and rapid desiccation of starch.

Figure 1 is a partially-sectionized front elevation of my drying-room.

Figure 2 is a longitudinal section of the same.

Figure 3 is a horizontal section at line *x x*.

Figure 4 is a perspective view of a rack.

Figure 5 is a longitudinal section of one of the trays.

A represents one of my drying-rooms or chambers, having a series of doors B in front, and having in its ceiling ventilating-ducts C, which communicate with a common trunk or escape flue D. The drying-room is traversed from front to rear by steam pipes E; and the floor between each two consecutive stacks of these pipes is provided with a railway, F, which communicates with a similar way, G, on a truck, H, which occupies a sunk or depressed railway, I, extending in front of all the drying-rooms, and parallel therewith. Beyond the sunk railway is another elevated railway, J, in a line with the way F within the drying-room. K are drying-racks, consisting, each one, of a rectangular open frame L, having trays or platforms M, arranged one above another at suitable heights to receive the blocks of starch to be desiccated. Each platform is floored with bricks or unglazed tiles N. Each rack is mounted on four flanged wheels O, adapted to rest and run upon the ways F, G, and J.

The operation is as follows: Each rack in succession, being charged with blocks of wet starch, is conveyed along its appropriate railway to the truck H, and is upon it conveyed opposite to the particular compartment in the drying-house for which it is destined, into which it is then run, being supported and guided on the railway F. The doors B being then shut, the heat from the steam pipes eliminates the moisture from the starch, and causes it to seek the upper part of the room, whence it escapes, through the ventilating-ducts C and flue D, into the open air.

It will be seen that, in whatever part of the wareroom any particular rack may be located, it is easily shifted to any part of the drying-room, and *vice versa*.

I claim herein as new, and of my invention—

1. The provision in a starch-drying apparatus of a series of racks, K, formed to run on tracks F and J, within and without the drying-room, and which communicate, by a similar track, upon a truck, H, which occupies a depressed track or railway, I, substantially as set forth.

2. The arrangement of drying-room or rooms A B, ventilators C D, steam-heating pipes E, elevated tracks F and J, depressed track I, truck H, and racks K, for the purpose set forth.

In testimony of which invention I hereunto set my hand.

ANDREW ERKENBRECHER.

Witnesses:

GEO. H. KNIGHT,  
JAMES H. LAYMAN.