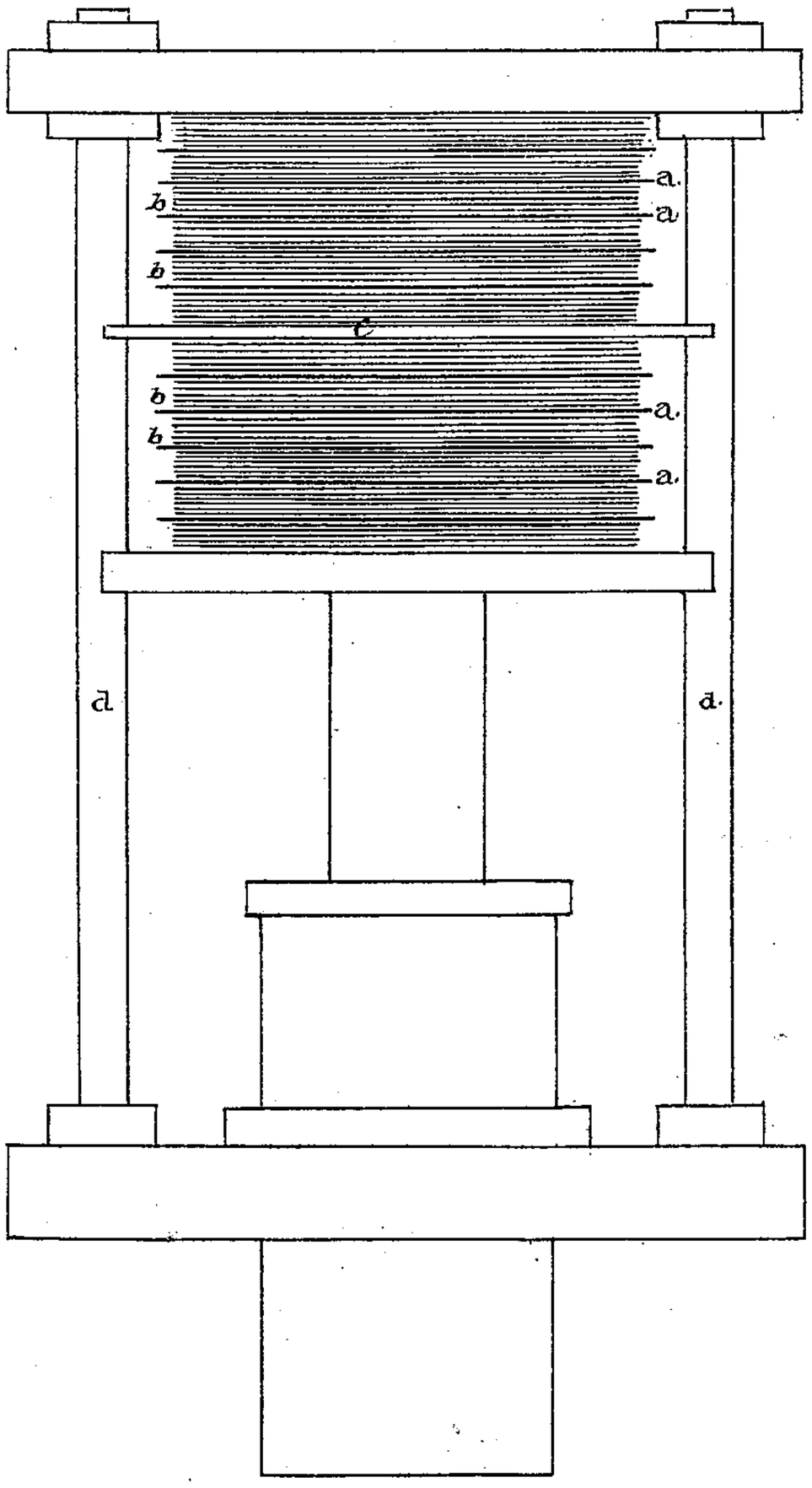
E. A. SEELEY.

Improvement in the Manufacture of Paper-Boards.

No. 114,868. Patented May 16, 1871.



Witnesses:
W. M. Gooding
Edward Goldwin } attest

Inventor:
Edmund A. Seeley

UNITED STATES PATENT OFFICE.

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

IMPROVEMENT IN THE MANUFACTURE OF PAPER BOARDS.

Specification forming part of Letters Patent No. **114,868,** dated May 16, 1871.

I, EDMUND A. SEELEY, of Scotch Plains, Union county, State of New Jersey, have made an Improvement or Discovery, new and useful, in Manufacturing Paper Boards, of which the following is a specification:

My discovery or improvement relates to a means of rendering the power and speed of hydraulic and other presses more available than heretofore in the process of drying paper boards.

The boards are of varied thickness, to suit various purposes. When taken from the machine on which they are made they are full of moisture. The speedy expulsion of the moisture without injury to the boards by great pressure and in a short time is an object not hitherto satisfactorily attained.

Heavy pressure quickly applied to a pile of wet boards defaces and tears them more or less. The introduction of wood lay-boards at intervals in the pile decreases the wear and tear; but when put so near together as to fill the press with more wood than paper boards there is no certainty but that more or less of the boards will be injured. Wood boards thin enough to save room will not stand the required pressure.

The great object is to prevent lateral movement of the stock or material of the boards under the pressure.

These difficulties I overcome by the use of metal lay-boards, covered with any suitable cloth or other material. The affinity of the covering for the paper stock, keeping it perfectly quiescent under the pressure, all lateral movement is avoided, and the less space occupied with the metal, that has the required stiffness without the thickness of the wood, allows of so few boards of paper between the metal lay-boards as to prevent any defacing or splitting of the boards, and more of the room in the press is then occupied with paper boards.

The accompanying drawing is for showing the positions of the metal lay-boards, the paper boards, and of a guide-board in the middle of the pile, placed there to keep the pile upright while under the pressing process.

a shows the metal lay-boards; *b*, the paper boards; and *c*, the guide-board, which is kept in position by the upright bars, *d*, of the press.

What I claim, and desire to secure, is—

1. The metal lay-boards, as and for the purpose specified and shown.

2. The metal lay-boards, covered with cloth or other suitable material, as and for the purpose set forth.

3. The guide-board *c*, in combination with the metal lay-boards, as and for the purpose specified.

E. A. SEELEY.

Witnesses:

W. M. GOODING,

EDWARD COLLVER.