

O. I. FOSTER.
 Improvement in Sand-Papering Machines.
 No. 130,420. Patented Aug. 13, 1872.

Fig. 1.

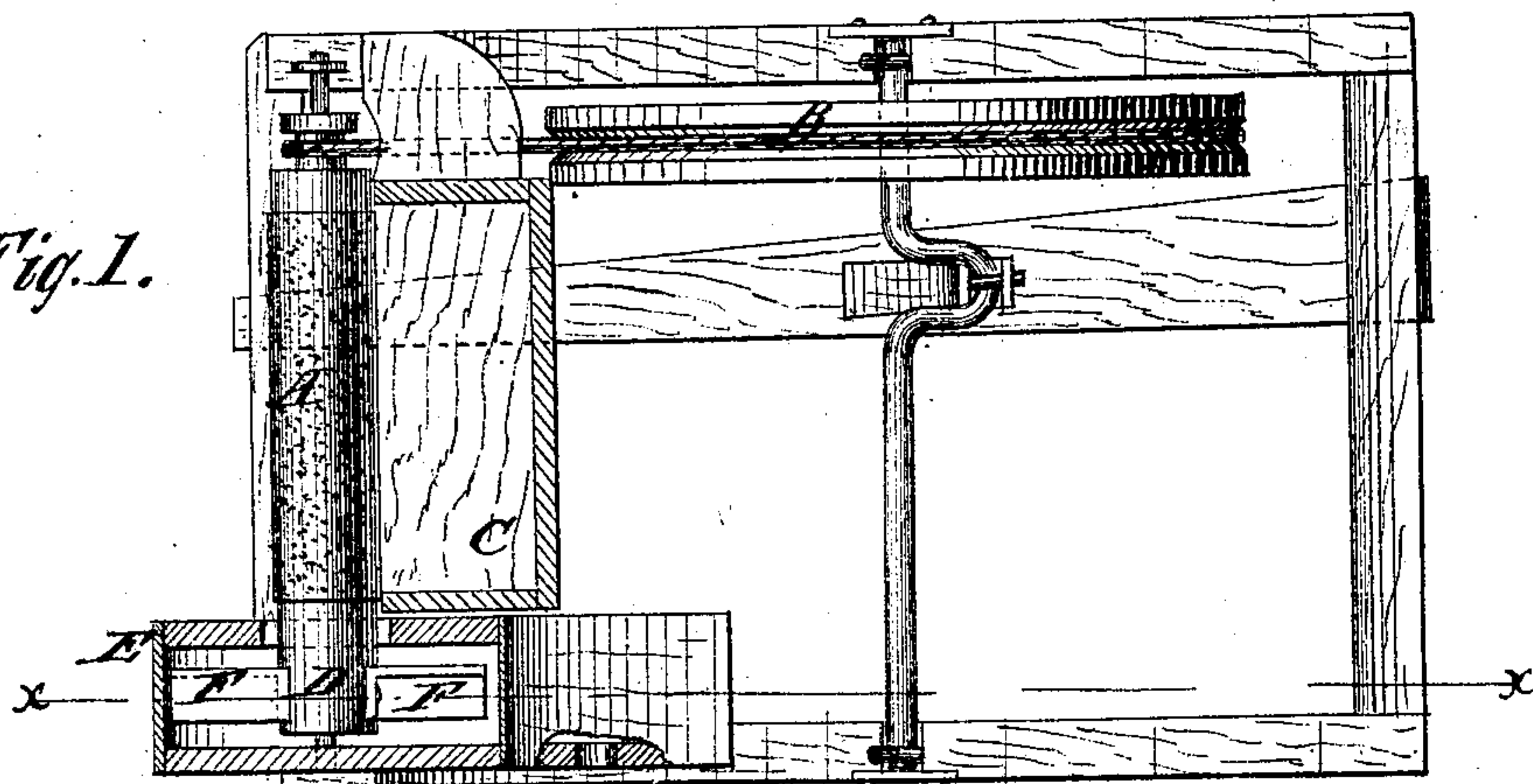


Fig. 2.

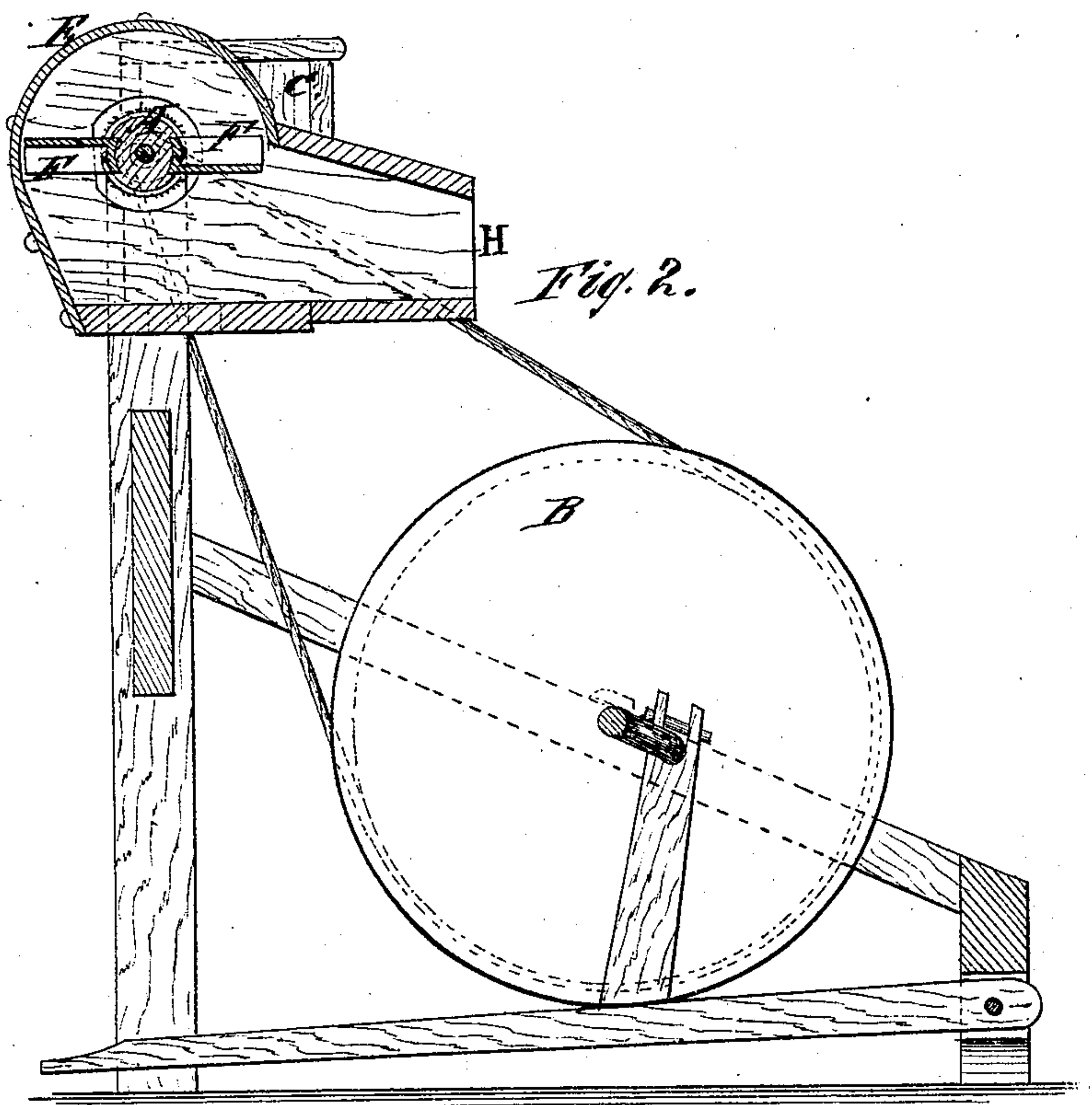
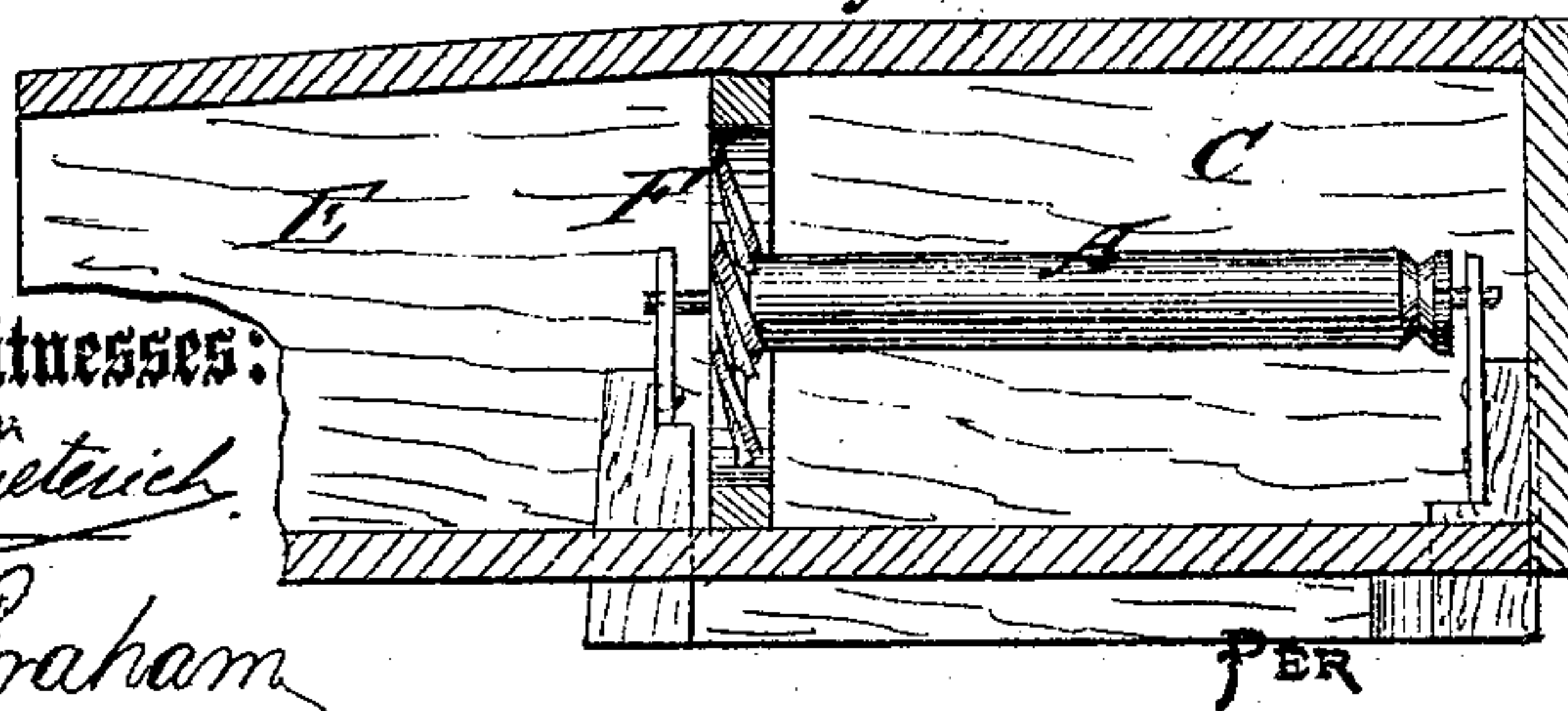


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

ORRA I. FOSTER, OF SALEM, NEW HAMPSHIRE.

IMPROVEMENT IN SAND-PAPERING MACHINES.

Specification forming part of Letters Patent No. 130,420, dated August 13, 1872.

Specification describing a new and useful Improvement in Sand-Papering Machines, invented by ORRA I. FOSTER, of Salem, in the county of Rockingham and State of New Hampshire.

My invention consists of an arrangement of the fan-blower for carrying the dust away, in connection with the shaft of the sand-paper cylinder, in such manner that the machine may be made cheaper and run with less power than as heretofore made.

Figure 1 is a horizontal section of my improved machine. Fig. 2 is a sectional elevation taken on the line *x x* of Fig. 1; and Fig. 3 is a horizontal section of a modified form of fan-blower that may be used.

Similar letters of reference indicate corresponding parts.

A represents the sand-papering cylinder; B, the driving-wheel; and C, the hood of an ordinary sand-papering machine, to which a fan-blower, for drawing the dust away from the operator and conducting it away, has heretofore been applied, being operated by means of a countershaft and belt, which I have found

may be dispensed with by having a prolongation, D, of the sand-paper cylinder, or its shaft, within a suitable fan-case, E, and applying the fan-blades F directly thereto, as shown in the drawing. This may be done without regard to the shape of the fan-blades, which may be like those represented in Figs. 1 and 2, or like those in Fig. 3, or any other; but in practice I find the blades F arranged parallel with the axis of the shaft, with a flange at right angles thereto on the advancing side and next to the sand-paper roller are the best, and I propose to use them generally. The fan-case will, of course, have a discharging-spout, H, for conducting the dust to any suitable receptacle.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination of the fan-blower with the sand-papering machine, substantially as and for the purpose described.

ORRA I. FOSTER.

Witnesses:

JOHN P. FOSTER,
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