

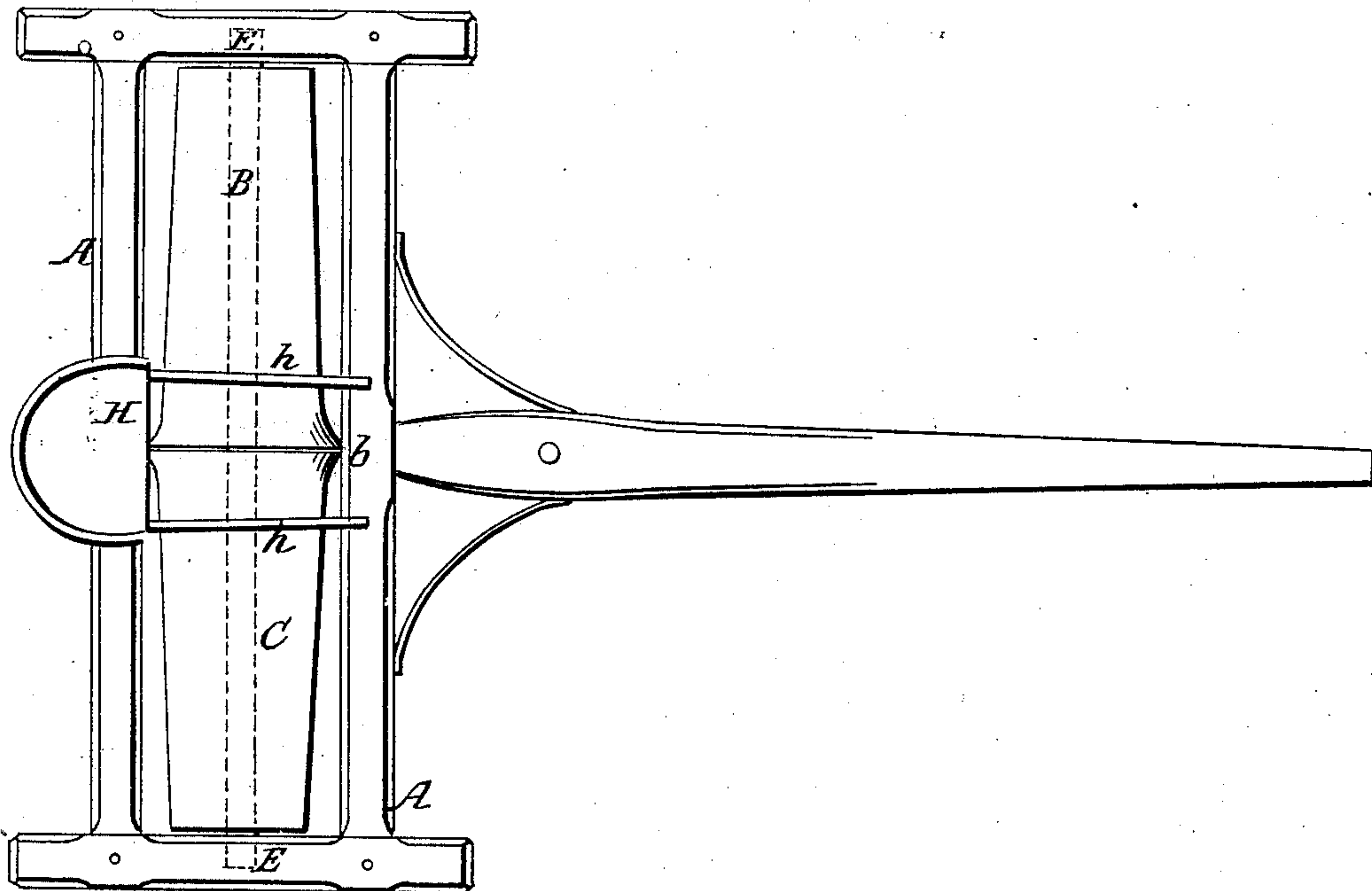
F. B. FOURNIER.

Land-Roller.

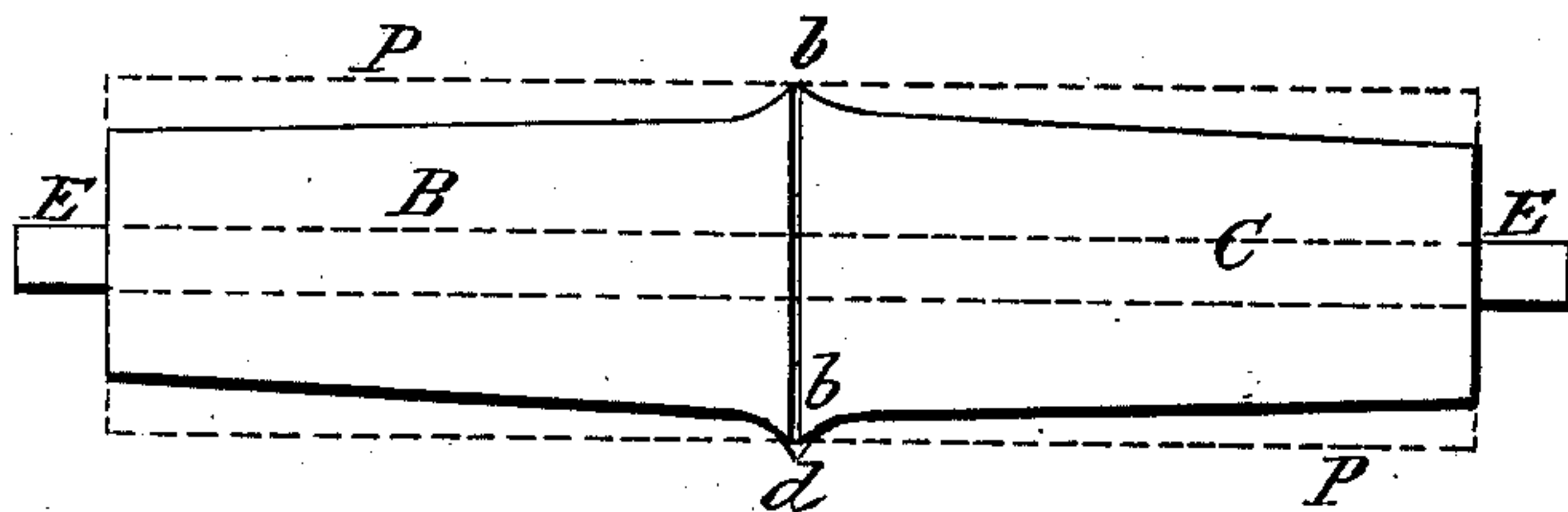
No. 34,327.

Patented Feb. 4, 1862.

*Fig. 1.*



*Fig. 3*



*Witnesses.*

*W. H. Furndgs.  
A. W. McClelland.*

*Inventor.*

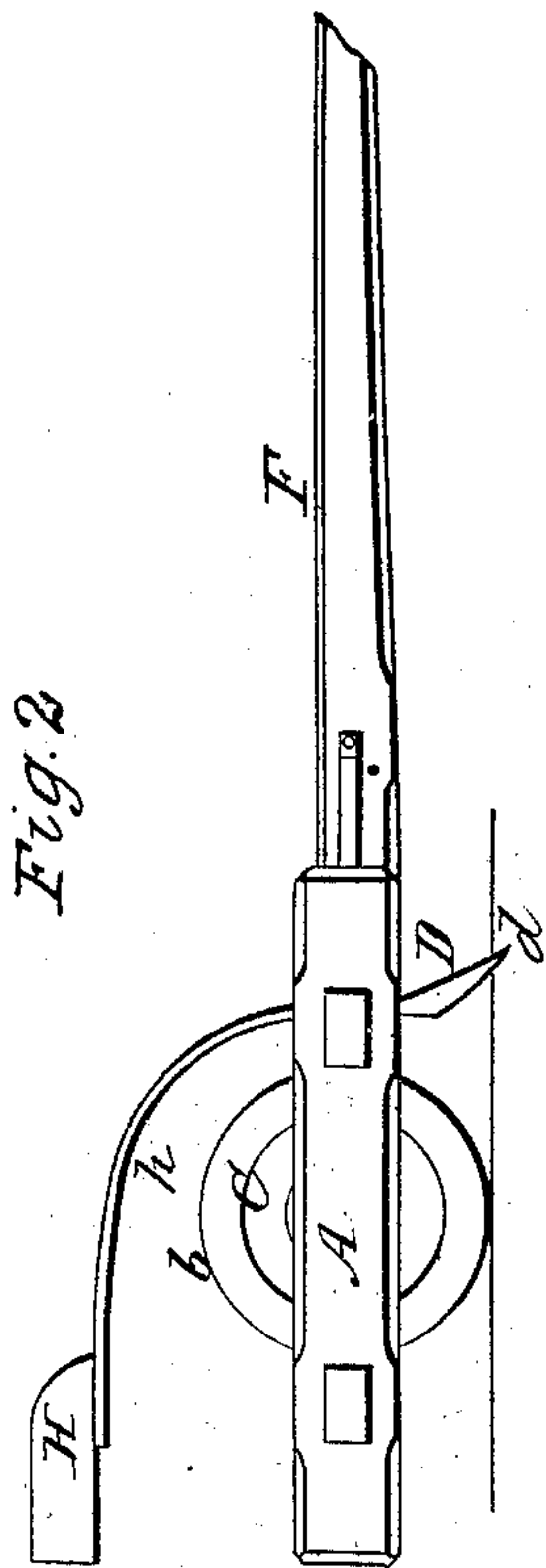
*F. B. Fournier*

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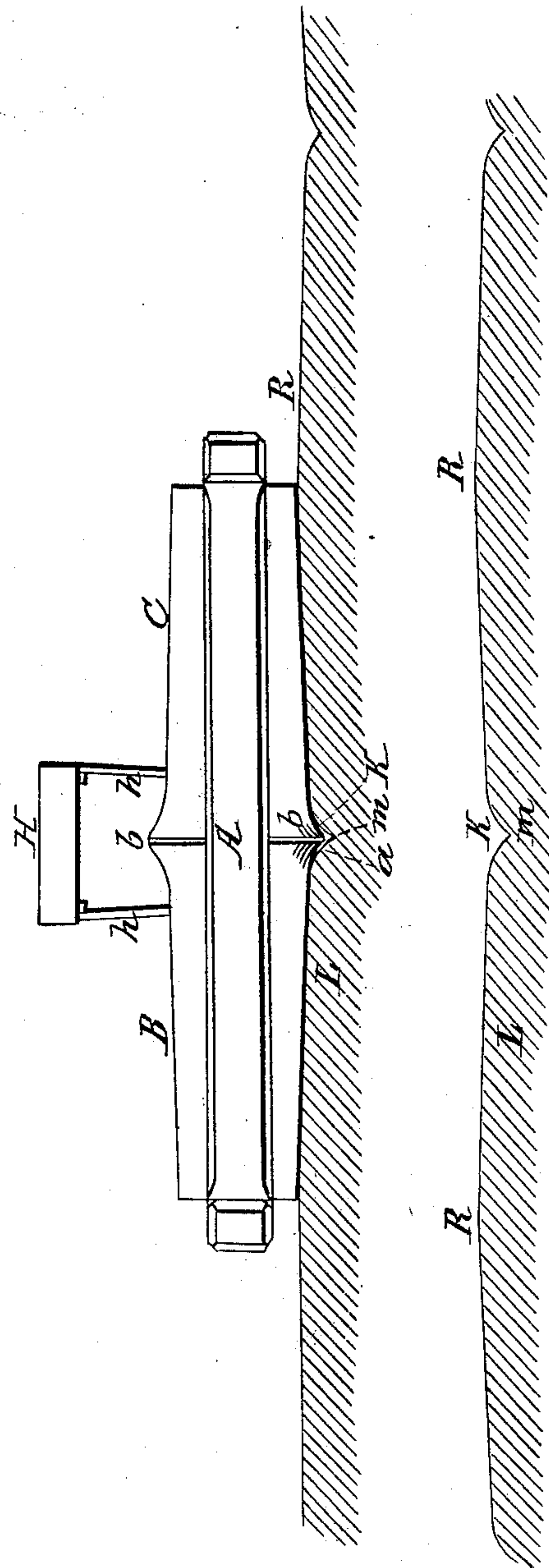
Land-Roller.

No 34,327.

Patented Feb. 4, 1862.



*Fig. 4.*



*Witnesses.*

*W. H. Burdick.*  
*A. W. McLelland.*

*Inventor.*

*F. B. Fournier.*

# UNITED STATES PATENT OFFICE.

F. B. FOURNIER, OF BERE A, OHIO, ASSIGNOR TO HIMSELF AND ROBERT WALLACE, OF SAME PLACE.

## IMPROVED DRAIN ROLLER AND MOLDER COMBINED.

Specification forming part of Letters Patent No. 34,327, dated February 4, 1862.

*To all whom it may concern:*

Be it known that I, F. B. FOURNIER, of Berea, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in a Combined Drain Roller and Molder; and I do hereby declare that the following is a full and complete description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a top view. Fig. 2 is a side view. Fig. 3 represents the rollers detached. Fig. 4 illustrates the practical working of the machine.

Similar letters of reference refer to corresponding parts in the different views.

My improvement relates to the construction of a machine for rolling and molding grain-lands into beds or narrow lands for the purpose of draining.

In Figs. 1, 2, and 3, A represents the frame of the machine on each side and end of the rollers B and C, the shaft that passes through the rollers being secured to the end pieces of the frame, as indicated by the dotted lines E in Figs. 1 and 3. The rollers B and C are on the same shaft, and are alike in size and form, gradually widening toward the center and curving outward, forming an enlargement, *b*, where they come together, and that makes a corresponding depression in the soil.

Underneath the front side piece of the frame is secured the plow D, the point *d* of which extends down farther than the enlargement *b* of the rollers, as shown in Figs. 2 and 3, for the purpose of cutting a channel for the drain.

F is the tongue, attached to the front of the frame, and H is a seat above the rollers, supported by the springs *b b*, secured to the frame.

Fig. 3 represents the rollers detached from the frame, E being the shaft on which they revolve.

A rear end view of the machine in practical operation is shown in Fig. 4, L being a vertical section of a field. The plow D in front makes a channel or furrow for the drain in the first place, and the enlargement *b* of the rollers, being in a line with the plow, follows after, molding it down, as represented at K, and from the inclined shape of the rollers upward toward the outside ends the beds or lands R R are molded higher in the middle, and gradually shape down and curve into the drain, as represented. The width of each bed, or from *m* to *n*, is equal to the length of both rollers, or twice the length of one, as the channel or drain is formed in the center, the ends of the rollers extending to the middle of the beds on each side. In this way grain-lands are formed into raised beds in the easiest and most uniform manner for the purpose of draining.

If it is desired to roll the land level, a sleeve can be placed over the rollers, as indicated by the dotted lines P in Fig. 3, changing it into an ordinary roller.

One roller made in the shape of the rollers B and C combined might be used; but I prefer two, as they are more convenient in turning curves and are not so likely to break up the surface or the soil.

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

1. The combination of the rollers B and C with the enlargement *b*, when arranged in combination with the frame-work, so as to operate in the manner and for the purpose set forth.

2. In combination therewith, the plow D, in the manner and for the purpose specified.

F. B. FOURNIER.

Witnesses:

W. H. BURRIDGE,  
A. W. McCLELLAND.