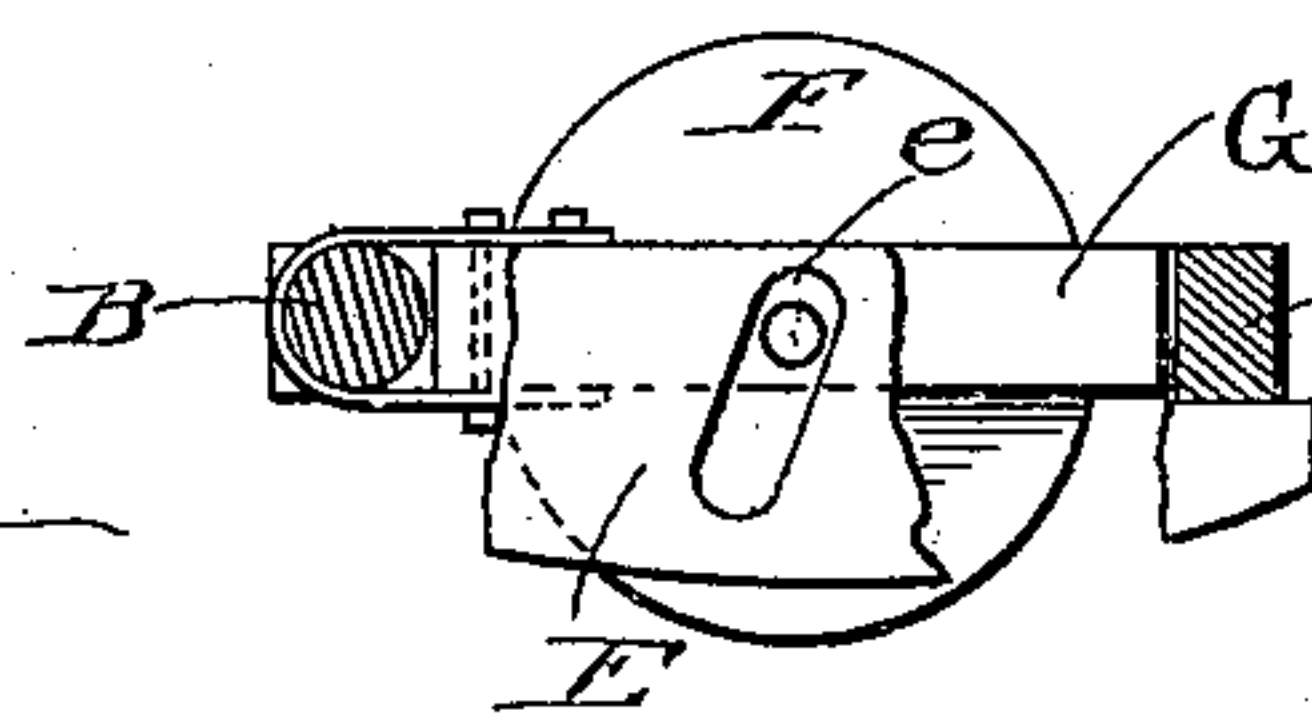
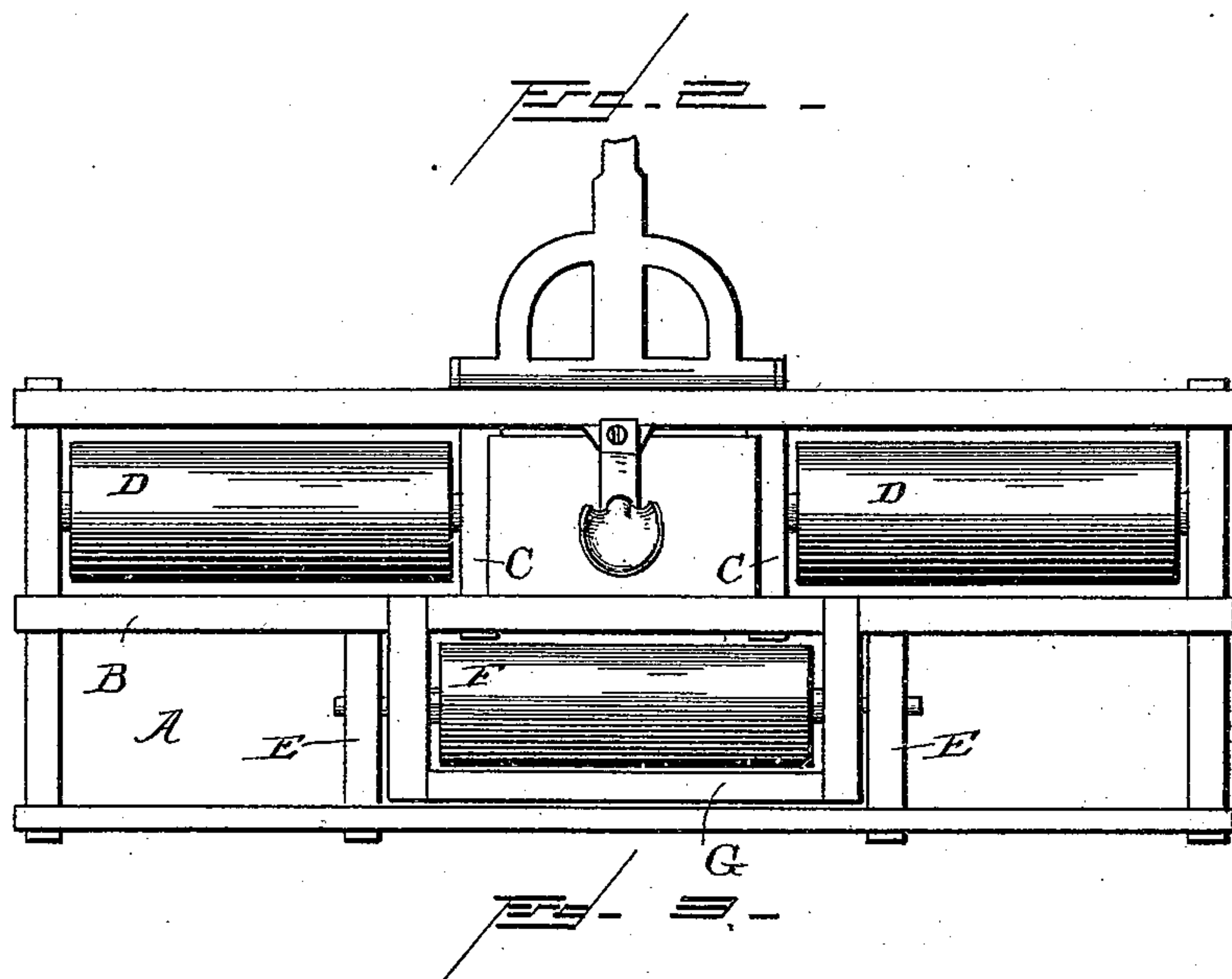
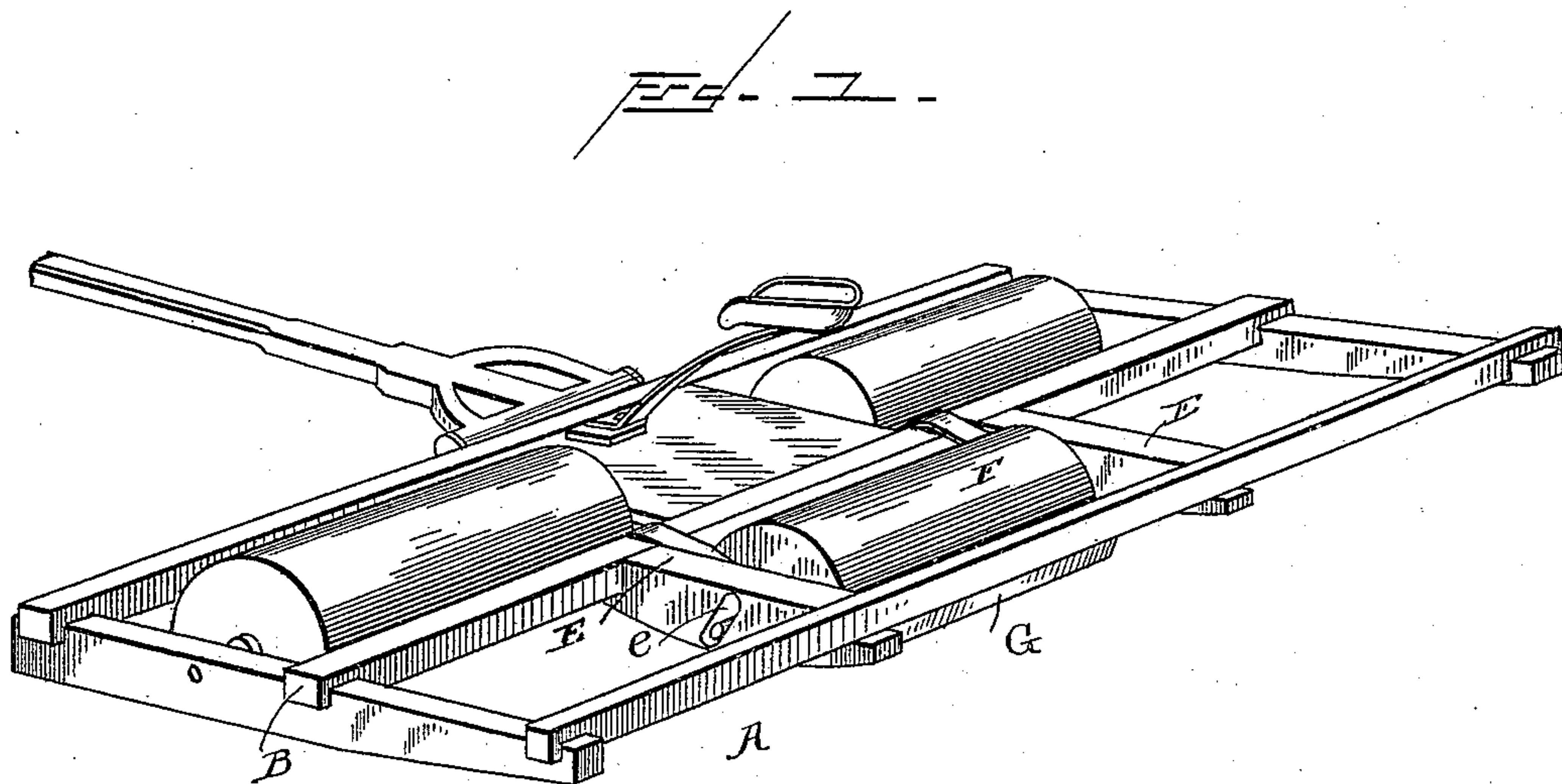


(No Model.)

W. R. WALKER.
LAND ROLLER.

No. 446,306.

Patented Feb. 10, 1891.



WITNESSES
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UNITED STATES PATENT OFFICE.

WILLIAM R. WALKER, OF SABULA, IOWA.

LAND-ROLLER.

SPECIFICATION forming part of Letters Patent No. 446,306, dated February 10, 1891.

Application filed June 23, 1890. Serial No. 356,460. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM R. WALKER, a citizen of the United States, residing at Sabula, in the county of Jackson and State of Iowa, have invented certain new and useful Improvements in Land-Rollers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it ap-
10 pertains to make and use the same.

My invention relates to improvements in land-rollers; and it consists of certain novel features hereinafter described and claimed.

Figure 1 is a perspective rear view of my improved roller. Fig. 2 is a top plan view. Fig. 3 is a detail of the adjustable section.

The object of my invention is to provide a tool that is always under the control of the operator, one of the desirable features being to enable the roller to be turned within a small inclosure without undue strain upon the team.

Referring to the several parts of my invention by letter, A is the frame, which is oblong in form, the length and width thereof being determined by the length and diameter of the rollers used. The frame or body A is separated longitudinally into two equal parts by the beam B, and the forward compartment thus provided is separated by the transverse bars C C, which serve the double purpose of providing bearings for the inner ends of the rollers D D, and also a floor for the driver's feet. The spaces thus provided on each side of the bars C C are occupied by the rollers D D, the inner end of each being mounted in suitable bearings in said bars, while the outer ends are secured in similar bearings arranged in the frame A. It will be seen that I provide two rollers separated slightly from each other, the length of such intervening space between the rollers being determined by the builder. The space behind the beam B is divided by the cross-bars E E, so that a space will be provided between such bars sufficient to receive the roller F, which, it will be seen, is long enough to overlap the unrolled section of the ground left between the front rollers D D. The rear roller F is adjustably mounted
50 in the space between the bars E E, as follows—

that is to say, the rear roller is mounted in suitable bearings in the adjustable frame G, which consists of the end pieces and the rear bar, as shown. The forward ends of said end pieces of the frame G are pivotally secured to the beam B, while the rear ends are left free to move up or down within the space formed by the rear side of the frame and the cross-bars E E. The axles of the rear roller are sufficiently long to pass entirely through the end pieces of the adjustable section into and through the cross-bars E E, which are provided with the vertical slots *e e*. I prefer to use a tongue pivotally secured to the front side of the frame, so that a yielding motion will be produced.

In operation the rollers are drawn over the ground in the usual manner, and it will be seen that the construction just described will enable the rollers to readily conform to the varying and uneven surface of the soil, so that the rollers will act and be held to their work.

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

1. In a land-roller, the combination, with a frame having bars E formed with vertical guide-slots, of the swinging frame G, hinged at its front to the main frame, and the roller mounted in the said swinging frame and having the ends of its axles extended through the guide-slots of the fixed bars E, substantially as set forth.

2. In a land-roller, the combination of the rigid frame A, B, C, and E, the bars E having the vertical guide-slots *e*, the rollers D, mounted in the front part of said frame, the swinging frame G, hinged at its front within the rigid frame, and the roller F, mounted in the hinged frame and having the ends of its axles extended through the guide-slots *e* of the fixed bars E, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM R. WALKER.

Witnesses:

WILLIE BURTON,
WM. R. OAKE.