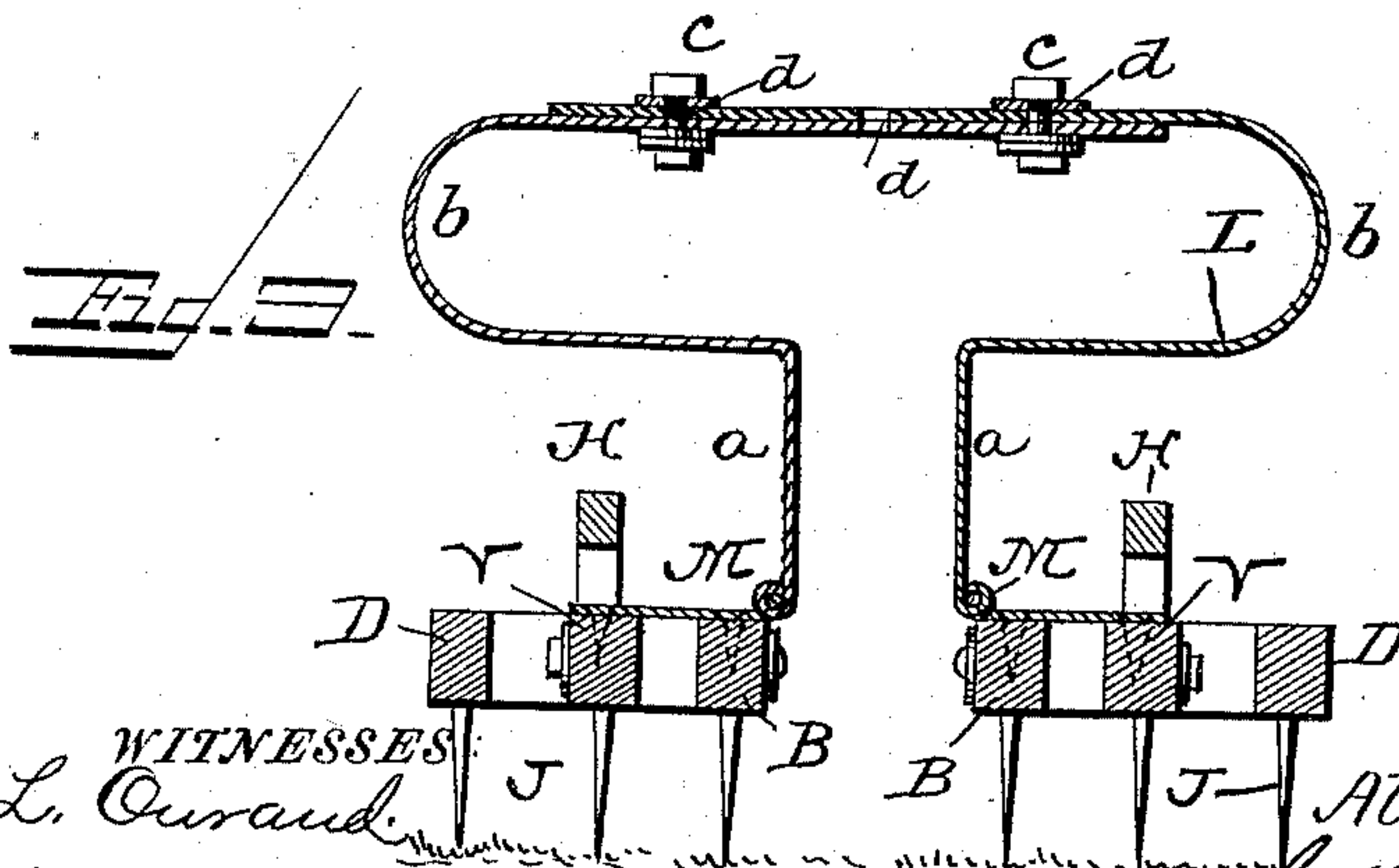
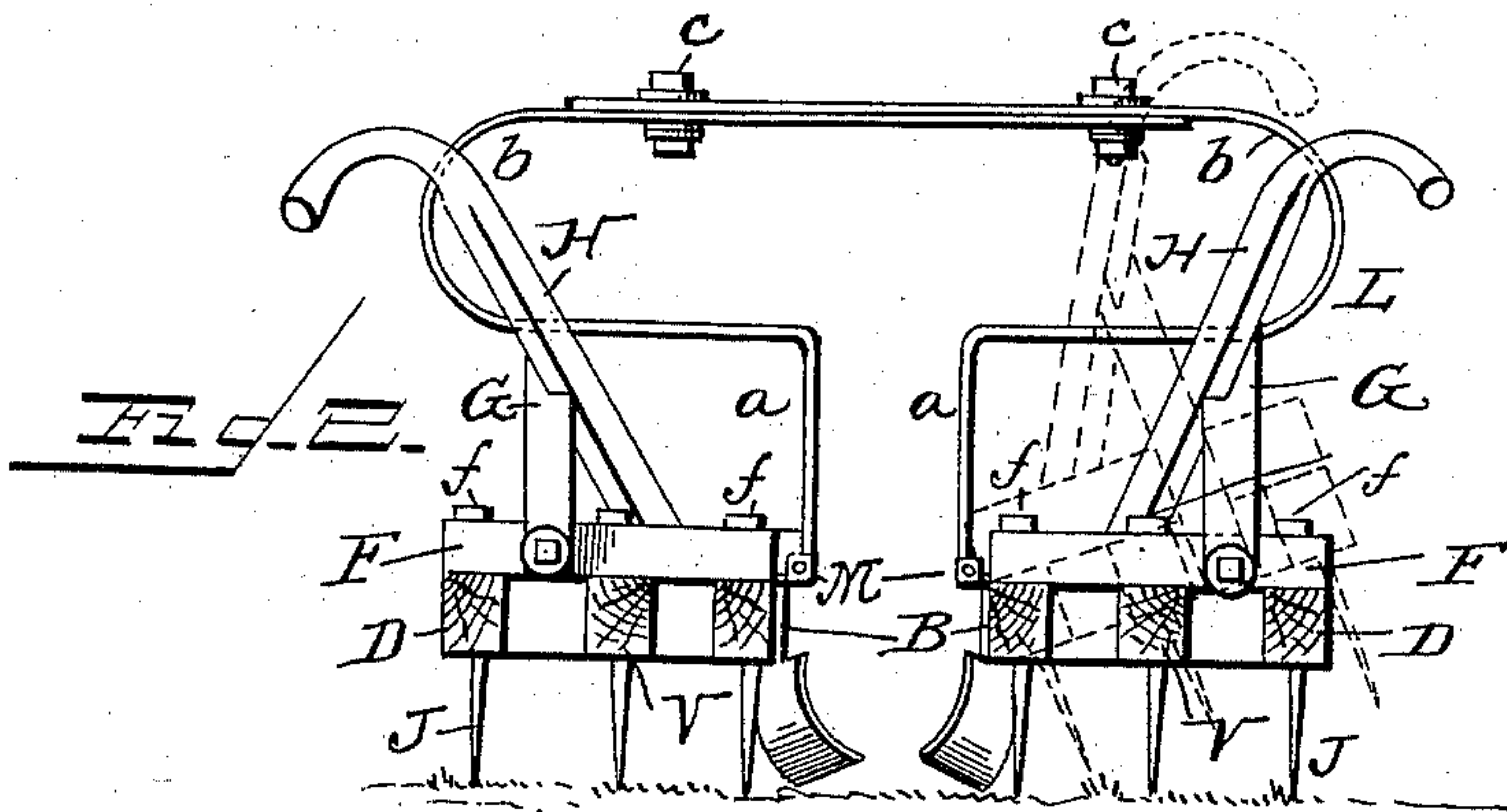
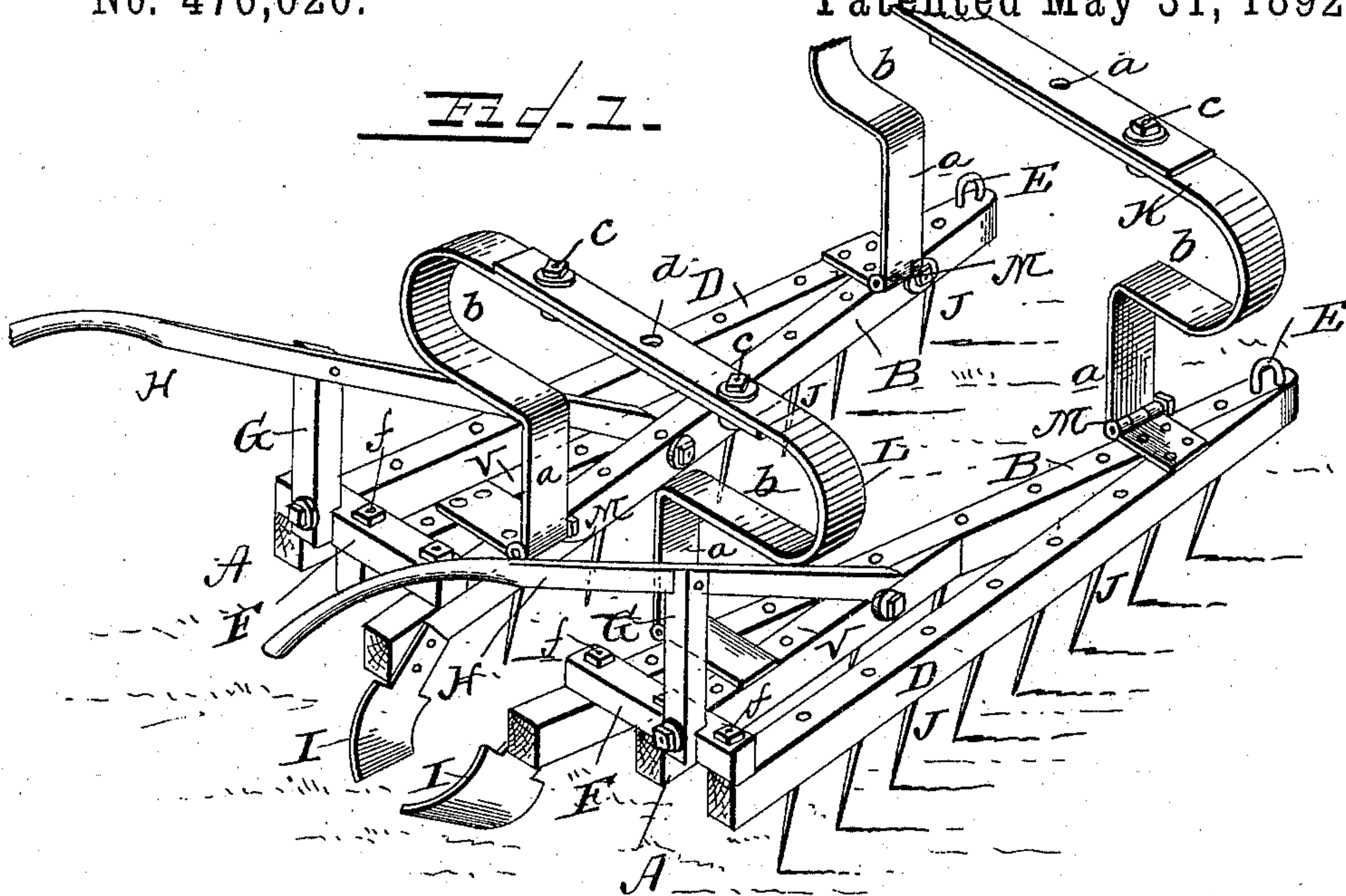


(No Model.)

A. MESTAYER.  
HARROW.

No. 476,020.

Patented May 31, 1892.



WITNESSES:  
F. L. Curand  
J. L. Bloomb

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Attorneys.



# UNITED STATES PATENT OFFICE.

ALBERT MESTAYER, OF LOREAUVILLE, LOUISIANA.

## HARROW.

SPECIFICATION forming part of Letters Patent No. 476,020, dated May 31, 1892.

Application filed September 7, 1891. Serial No. 405,001. (No model.)

*To all whom it may concern:*

Be it known that I, ALBERT MESTAYER, a citizen of the United States, and a resident of Loreauville, in the parish of Iberia and State of Louisiana, have invented certain new and useful Improvements in Harrows; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved harrow. Fig. 2 is a rear elevation of the same, and Fig. 3 is a sectional view through one of the flexible and adjustable connecting-bows with its hinges.

Like letters of reference denote corresponding parts in all the figures.

This invention relates to cultivator-harrows or double harrows adapted to straddle the rows of corn, potatoes, or other plants; and it consists in the improved construction and combination of parts of a harrow of that type which will be hereinafter more fully described, and particularly pointed out in the claim.

Referring to the drawings, the letters A A designate the two parts or sections of my double harrow, both of which are constructed exactly alike, so that a description of one part or section will suffice for both. Each section consists of a triangular frame formed by the longitudinal inner beam B and two slanting or inclined beams V and D, which are parallel to each other and form acute angles with the inner beam B, to which they are bolted at their forward ends. In the front of each of the two triangular parts or sections thus formed is fastened an eye or clevis E, to which the draft is attached.

The diverging rear ends of the beams B, C, and D are connected by a cross-piece F by means of bolts *f*, and to this cross-piece is bolted a standard G, into which the handle H is mortised. To the extreme rear ends of the inner beams B B are fastened adjustably the covering-shovels I I, the blades of which are inclined inwardly toward each other. Through each of the beams B, C, and D are inserted the rearwardly-slanting harrow-teeth J, which may be of any desired shape and construc-

tion, according to the nature of the work for which the harrow is destined and the character of the soil on which it is to be used.

The two triangular sections A A are connected adjustably and flexibly by means of the front bow K and rear bow L. These connecting-bows consist of straps or bands of steel suitably tempered and bent into the shape shown on the drawings—*i. e.*, forming the sides or upright parts *a a* and loops *b b*, overlapping one another on their upper side and connected adjustably by bolts *c c*, inserted through registering apertures *d*, punched in the overlapping parts of the bows. The lower ends of the uprights or side pieces *a* are connected to the beams B by means of hinges M, upon which they turn easily.

From the foregoing description, taken in connection with the drawings, the construction and operation of my improved harrow will readily be understood. The distance between the two sections A A may be regulated at will simply by shortening or lengthening the overlapping parts of their flexible connecting-bows K and L, so as to conform to the width of the row of corn or other plants to be cultivated. At the same time the peculiar shape and construction of these bows, in connection with their bottom hinges M, enable them to give or yield laterally by manipulating the handles H, so that the harrow will cultivate with ease rows of uneven width, and these hinges also permit of the turning or twisting of the harrow-sections, as indicated in dotted lines on Fig. 2, so as to regulate the "set" or pitch of the shovels at the rear end.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The herein-described harrow, comprising the triangular-toothed sections provided with shovels at their rear ends and bows for connecting the front and rear ends, each of said bows consisting of two parts, each part hinged to each frame and having their opposite ends connected laterally adjustable to each other.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

ALBERT MESTAYER.

Witnesses:

EUG. H. WALET,  
JOHN W. FISHER.