

(No Model.)

J. H. CHRISTY.

HARROW.

No. 294,011.

Patented Feb. 26, 1884.

Fig. 1

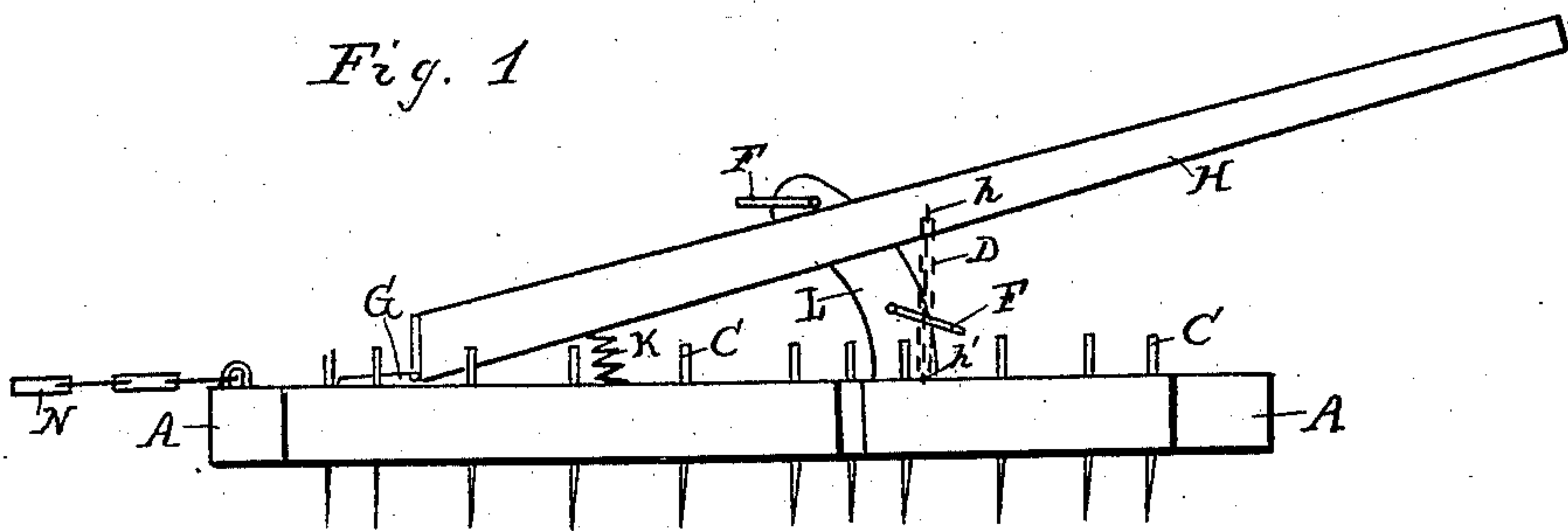
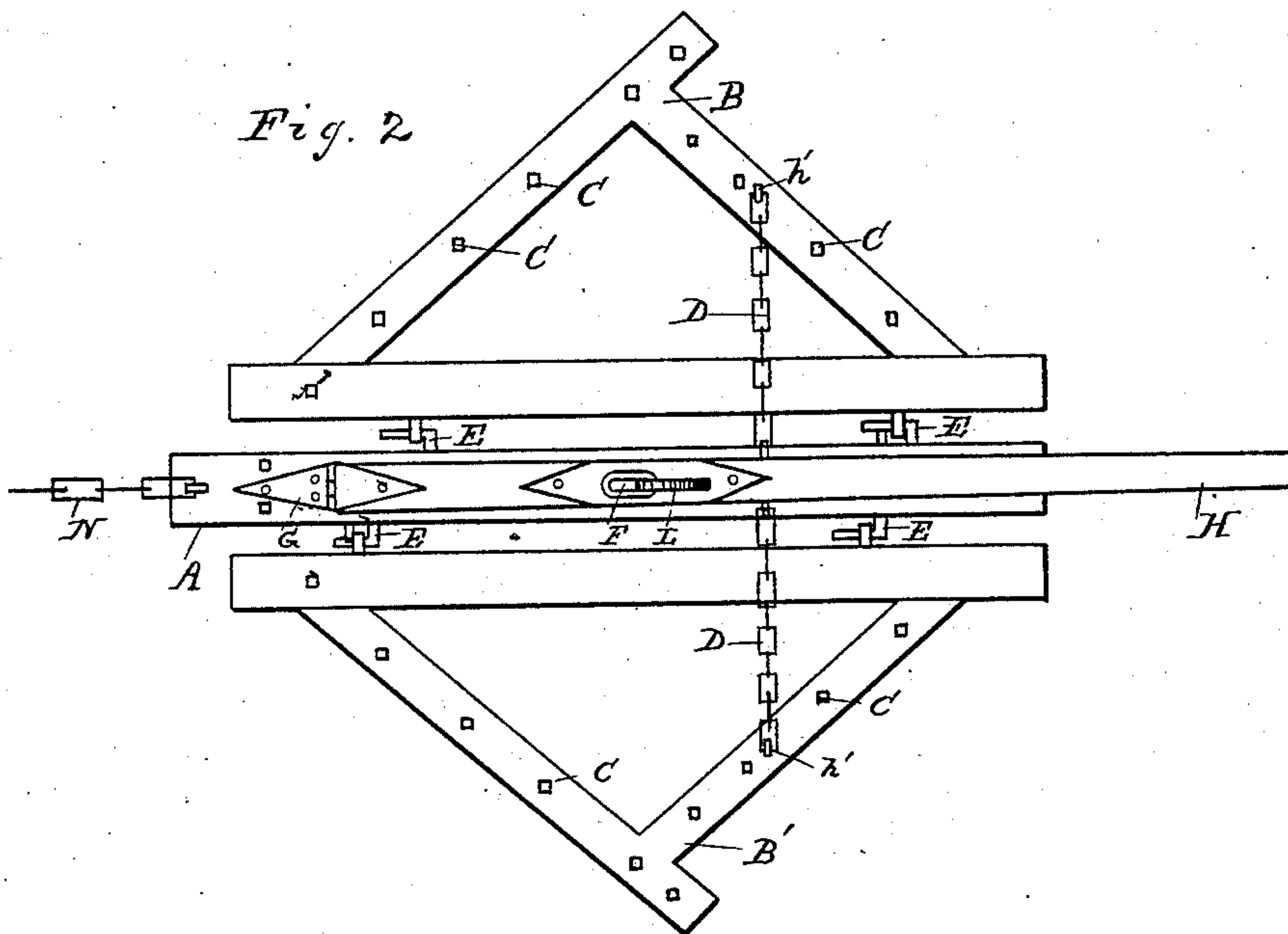


Fig. 2



WITNESSES

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JOHN H. CHRISTY, OF COWDEN, ILLINOIS.

HARROW.

SPECIFICATION forming part of Letters Patent No. 294,011, dated February 26, 1884.

Application filed July 24, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. CHRISTY, a citizen of the United States, residing at Cowden, in the county of Shelby and State of Illinois, have invented certain new and useful Improvements in Harrows; 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 appertains to make and use the same.

This invention relates to improvements in harrows, and has for its object to lift one side or the other of the harrow while in motion. This object is attained by the mechanism illustrated in the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a side elevation. Fig. 2 is a plan view.

The letter A represents a central beam, to which are flexibly attached two triangular frames, B B', which carry the teeth C, which may be made of any of the ordinary forms in general use.

E are the hinges connecting the central beam to the frames B B'.

G is a hinge connecting the beam A to the handle H, permitting the latter to be raised or lowered.

K is a spiral spring, supporting the handle H in an inclined position to the beam A.

L is an arc of metal, pivoted at its lower end in a slot formed in the beam A. It extends upwardly and passes through a slot in the handle H, and is provided with check rings or links F F. The handle H moves freely upon this arc between the links F F. When the handle H is depressed, it bears upon spring K, and is elevated thereby.

From the frames B B' chains extend from *h'* to hooks *h* on the handle H, by means of which, by bearing upon the handle in either direction, one or the other of the frames B B' may be lifted clear of the ground, and thus avoid any obstruction.

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

The hinged and slotted handle H, arc L, having check-rings F, and spring K, in combination with the central draft-beam of a harrow, having vibrating frames affixed to the sides thereof, substantially as specified.

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

JOHN HENRY CHRISTY.

Witnesses:

C. C. FRY,
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