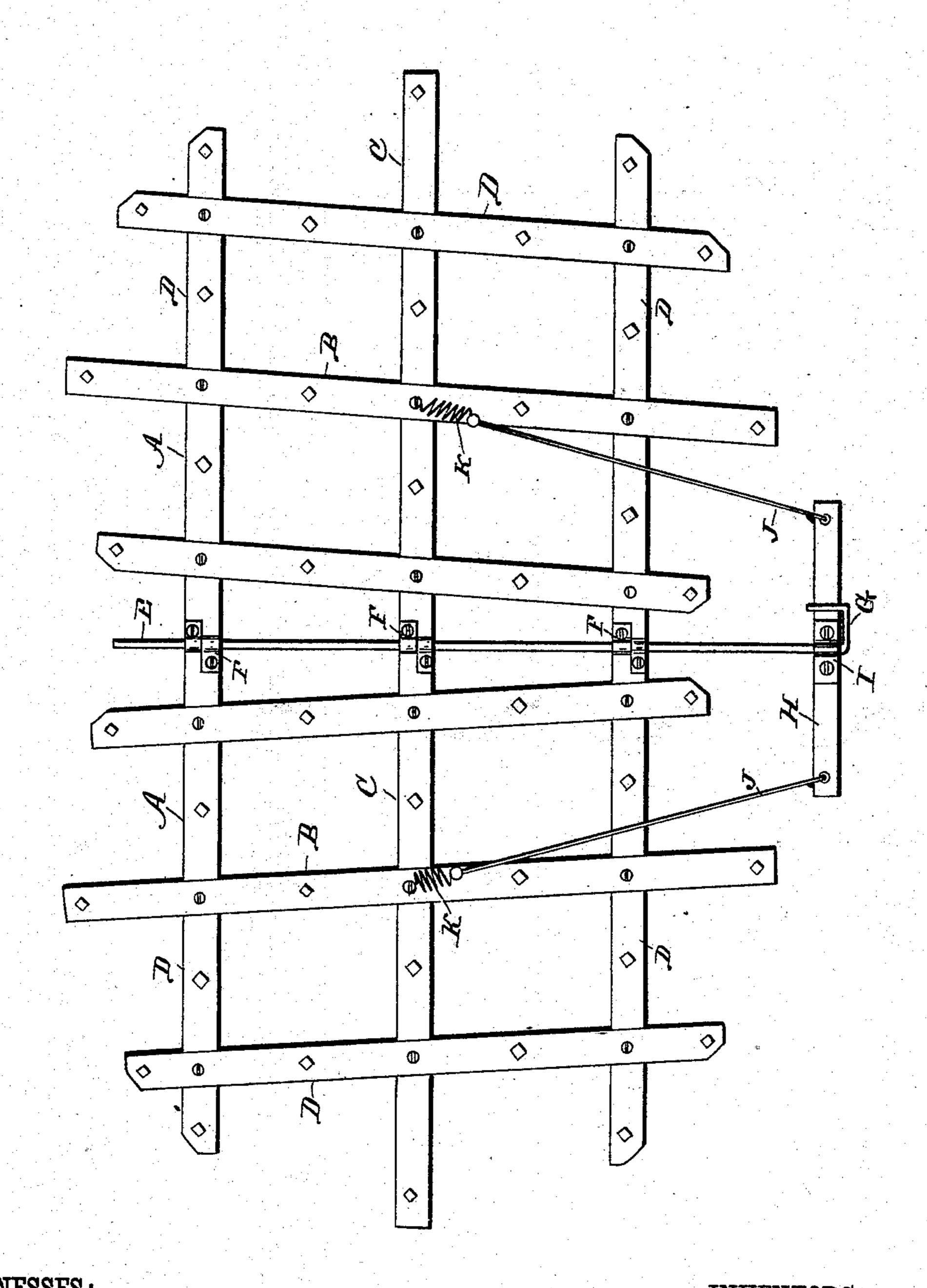
(No Model.)

E. L. NASH & B. R. PENNYBACKER, Jr. HARROW.

No. 288,472.

Patented Nov. 13, 1883.



MITNESSES: Tho Houghton. All Lyne.

6. Lash Bennybacker &, BY Munnt

United States Patent Office.

EDMUND L. NASH AND BENJAMIN R. PENNYBACKER, JR., OF PARKERSBURG, WEST VIRGINIA.

HARROW.

SPECIFICATION forming part of Letters Patent No. 288,472, dated November 13, 1883.

Application filed August 10, 1883. (No model.)

To all whom it may concern:

Be it known that we, EDMUND L. NASH and BENJAMIN R. PENNYBACKER, Jr., of Parkersburg, in the county of Wood and State of West Virginia, have invented a new and useful Improvement in Harrows, of which the following is a full, clear, and exact description, reference being had to the annexed drawing, forming part of this specification.

This invention relates to double harrows; and the invention consists of the novel construction hereinafter described and claimed.

In the drawing is shown a plan view of our improved harrow.

A indicates two sections of a harrow, each being made approximately round by forming the central cross-bars, BC, longer than the outer cross-bars, D. The two sections are hinged to the rod E by straps F, so that one may be turned up independent of the other. The rod E is extended forward in front of the harrow, and provided with a bent portion, G, which serves as a support for the double-tree H, the

latter being connected to the rod, and adapted to slide thereon by means of a loop, I. To 25 each end of the double-tree is attached a rod, chain, or wire, J, which is connected to the center of one of the harrow-sections, in order that the draft shall be applied at the center of each. This draft attachment is preferably provided with springs K, to render the draft easy on the shoulders of the team.

What we claim is—

The combination of the two harrow-sections, the rod to which the sections are hinged having 35 the bent portion at its forward end, the double-tree loosely connected to said rod, and the spring draft attachments connecting the ends of the double-tree with the centers of the said sections, substantially as shown and described. 40

EDMUND L. NASH. BENJAMIN R. PENNYBACKER, Jr.

Witnesses:

OKEY JOHNSON, DANE D. JOHNSON.