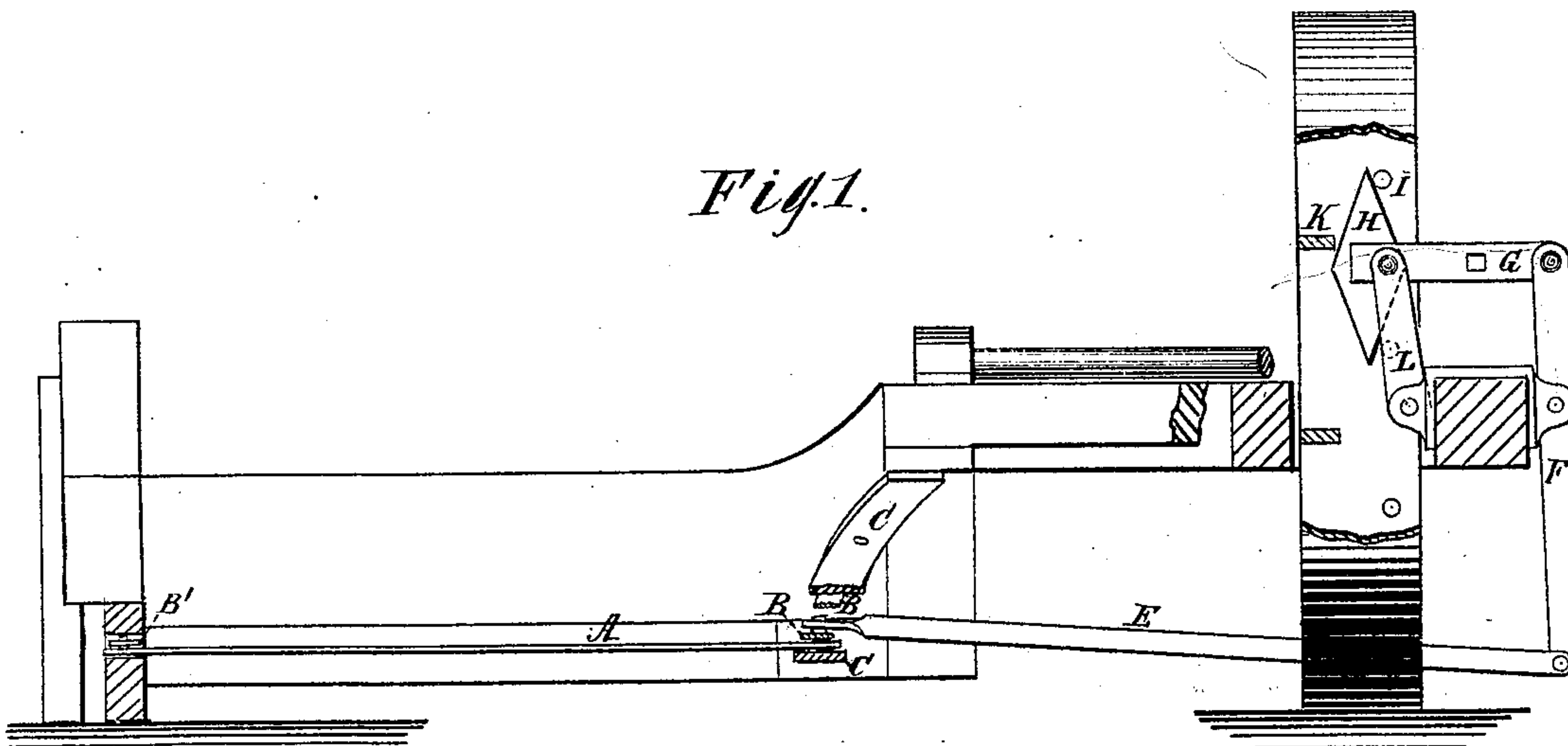


W. M. & G. H. HOWE.  
Harvesters.

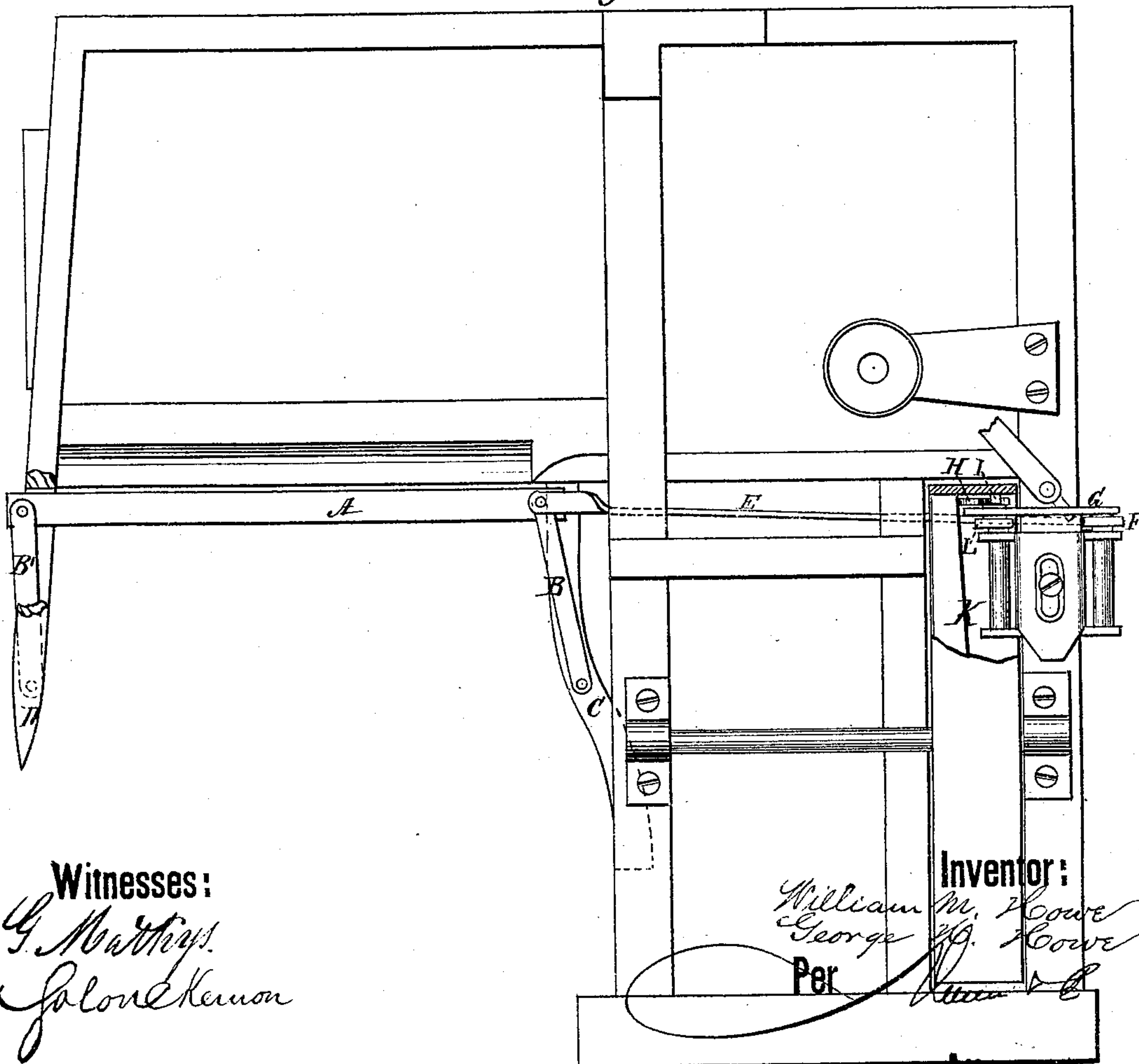
No. 151,393.

Patented May 26, 1874.

*Fig. 1.*



*Fig. 2.*



Witnesses:  
*G. Matthews.*  
*Salome Kannon*

Inventor:  
*William M. Howe*  
*George H. Howe*  
Per *[Signature]*

Attorneys.

# UNITED STATES PATENT OFFICE

WILLIAM M. HOWE AND GEORGE H. HOWE, OF LANSING, MINNESOTA.

## IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. 151,393, dated May 26, 1874; application filed December 12, 1873.

*To all whom it may concern:*

Be it known that we, WILLIAM M. HOWE and GEORGE H. HOWE, of Lansing, in the county of Mower and State of Minnesota, have invented a new and Improved Cutter-Bar Mechanism for Harvesters; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a front view broken out. Fig. 2 is a top view.

The invention will first be fully described, and then pointed out in the claim.

A is the reciprocating cutter-bar of a harvester; and B B', two straps, pivoted at one end to an end of cutter-bar, while the first strap B is pivoted at the other end to the upper surface of a plate, C, extending from the platform to the frame of vehicle, and the second B' to the inside of the slotted divider D. The strap B, as well as the pitman E, thus rests upon the plate C, while the cutter-bar A itself always rests within and is guided by the slot of divider. This enables it to work without any unnecessary friction, and with great facility. F is a vertical lever, one of whose ends is pivoted to rod E, and the other to a bar, G, which has on its further end

a curved plate, H, of a diamond or half-diamond form. This plate is alternately pressed by a drive-wheel stud, I, and spoke K, between which it is located, so as to force it first in one and then in the other direction. The stud and spokes are fastened to the inner periphery of wheel-rim, near opposite edges, and made to alternate circumferentially. The plate H is upheld by a bar, L, pivoted thereto at top, and at bottom to a suitable pin, rod, or shaft.

This mechanism is simple, cheap, easily applied, and repaired without much difficulty or expense.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The combination of wheel having studs I and spokes K, arranged alternately and entering near opposite edges of the rim, with the bar L and oppositely-inclined plate H, attached to the bar G, as and for the purpose specified.

WILLIAM M. HOWE.  
GEORGE H. HOWE.

Witnesses to both signatures:

A. B. VAUGHAN,  
RENSSELAER SOULE.