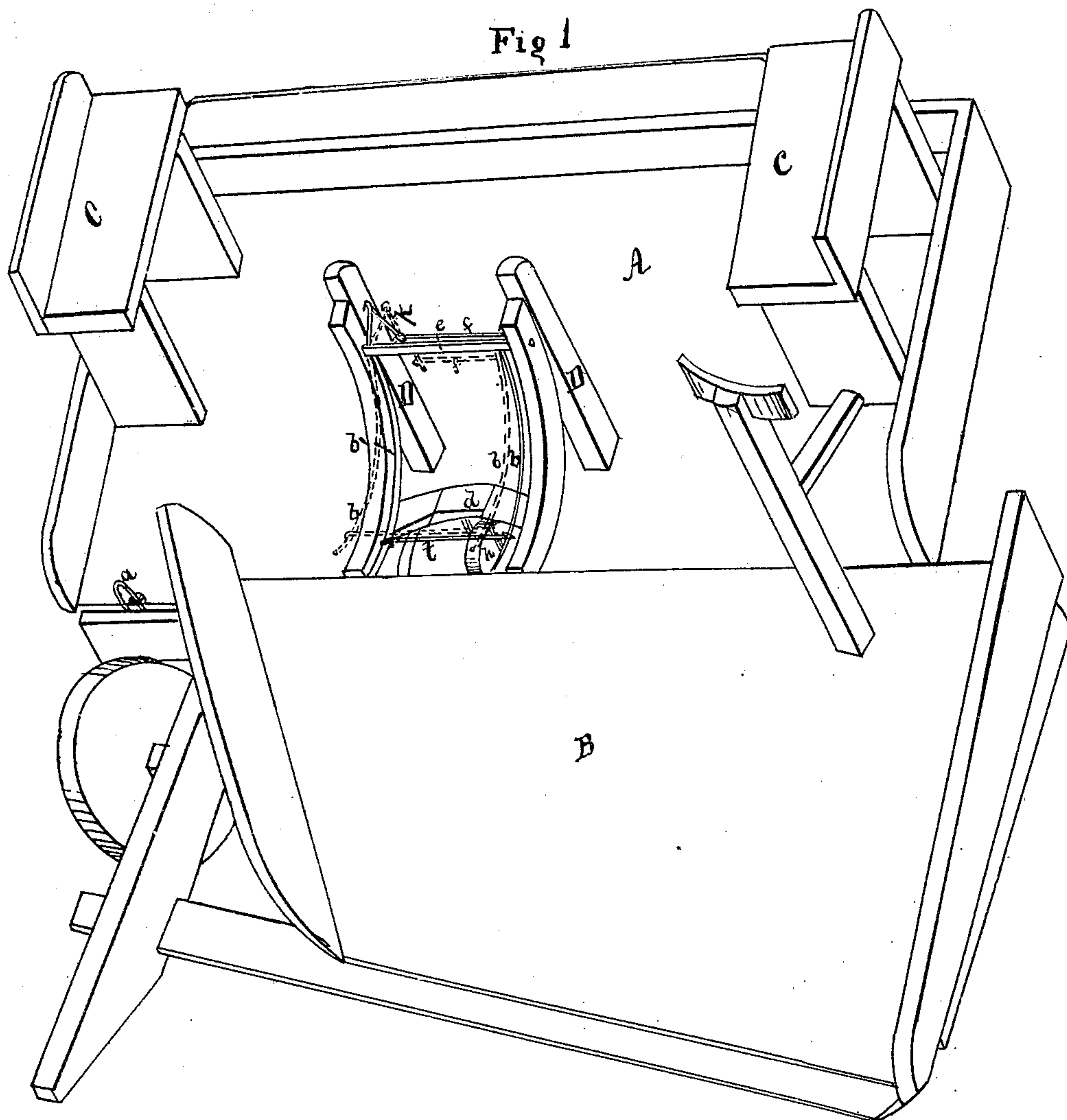


C. H. McAleer.

Grain Binder.

N<sup>o</sup> 25131

Patented Aug. 16, 1859.



Signed in presence of

Wilson Reilly  
Hartingsboro

Inventor

Charles H. McAleer

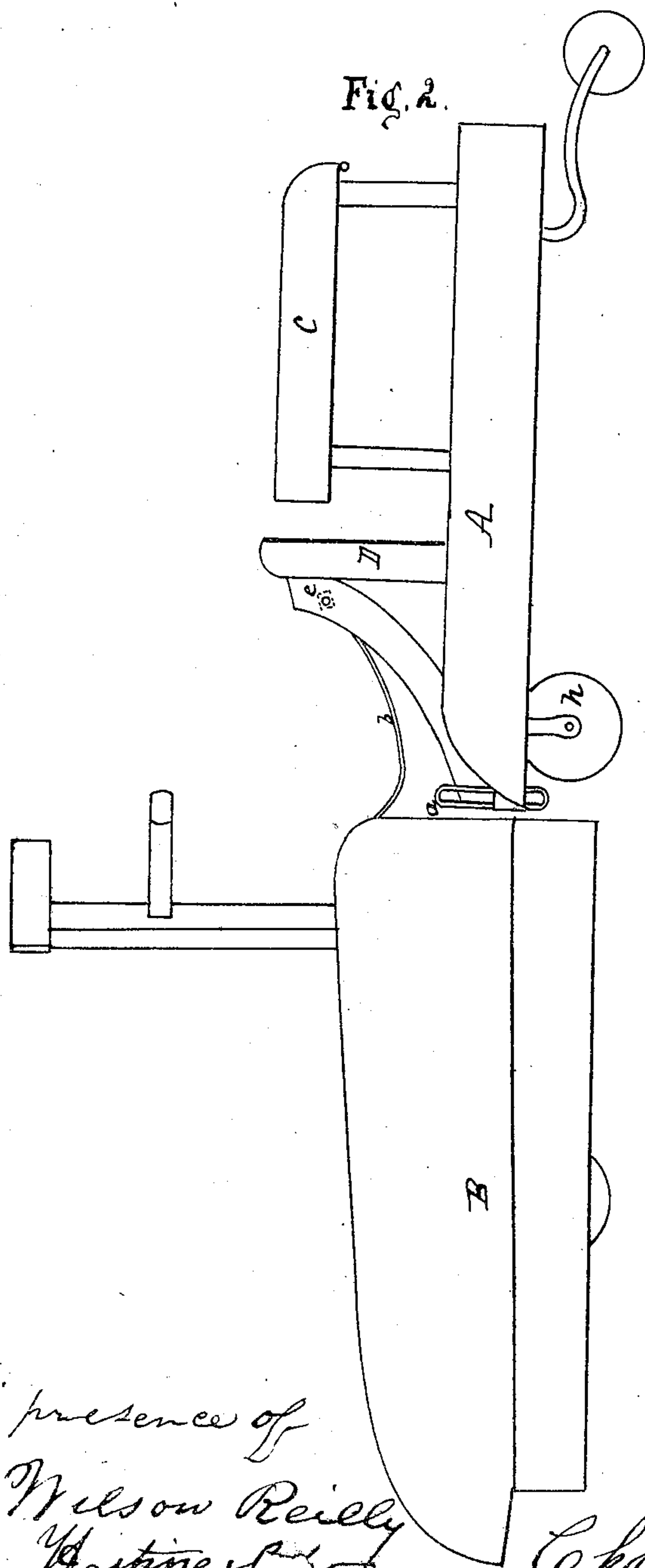
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Wilson Reilly  
Hastings

Inventor  
Charles H. McAleer

# UNITED STATES PATENT OFFICE.

CHARLES H. MCALEER, OF CHAMBERSBURG, PENNSYLVANIA.

## IMPROVEMENT IN BINDING APPARATUS FOR HARVESTERS.

Specification forming part of Letters Patent No. 25,131, dated August 16, 1859.

*To all whom it may concern:*

Be it known that I, CHARLES H. MCALEER, of Chambersburg, in the county of Franklin and State of Pennsylvania, have invented a new and useful Improvement in Binding Apparatus for Harvesters; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, making part of this specification.

The drawing represents a perspective view of the apparatus upon a supplemental platform attached to the harvester.

This apparatus is constructed as follows:

D D represent a frame secured firmly upon the platform A. The shaft *e* has its bearings in the frame D D, as represented in the drawing, and to this shaft two transverse curved arms are secured, as seen at *b b* in black and red lines. These curved arms are connected by the cross-tie *t* at the foot, and project at their opposite ends beyond the shaft *e*, to which they are attached, and are provided with pendent hinged links K, connected at their lower ends by the foot-piece or treadle *f*.

*h* is a caster-wheel fastened to a cross-bar directly under and to support the apparatus, or platform on which it is located, and C C are tables or seats on which the sheaf may be bound or tied.

The platform A is so adjusted, in its connection with the platform B, as to admit the raker to conveniently deposit the grain upon the binding apparatus or elevator; or the platform B may be sufficiently enlarged as to permit the apparatus or elevator to be located thereon, and also the binders' tables or seats.

The operation of this apparatus for elevating the gavel to the binders and compressing it is as follows: The raker, who rides upon the machine in any convenient position, by a sweep of his rake deposits the cut grain upon the curved arms *b b* of the apparatus, when one of the binders, placing his foot upon the treadle *f*, elevates the gavel and compresses it between the curved arms *b b* and the posts of frame D D, (the shaft *e* turning in its bearings,) and grasps the band, which he had previously thrown longitudinally across the shaft *e* and tie *t*, when he transfers the sheaf to the table or seats C C, where it is bound or tied and discharged.

The advantages of this apparatus over the ordinary mode of binding in the stubble consists principally in gathering up and binding all that is cut, and in saving the grain shelled out in the process of raking and binding by means of the platform, which in the other modes is lost upon the ground, and in the ease and facility with which the work can be done by two binders, thus reducing the amount of labor required and saving the expenses of the same.

Having thus described the construction and operation of my improvement in binding apparatus for harvesters, what I claim therein, and desire to secure by Letters Patent, is—

The apparatus or elevator for raising and compressing the gavel, constructed and operating in the manner substantially as described.

CHARLES H. MCALEER.

Attest:

L. G. BRANDEBURY,  
J. H. PHILLIPS.