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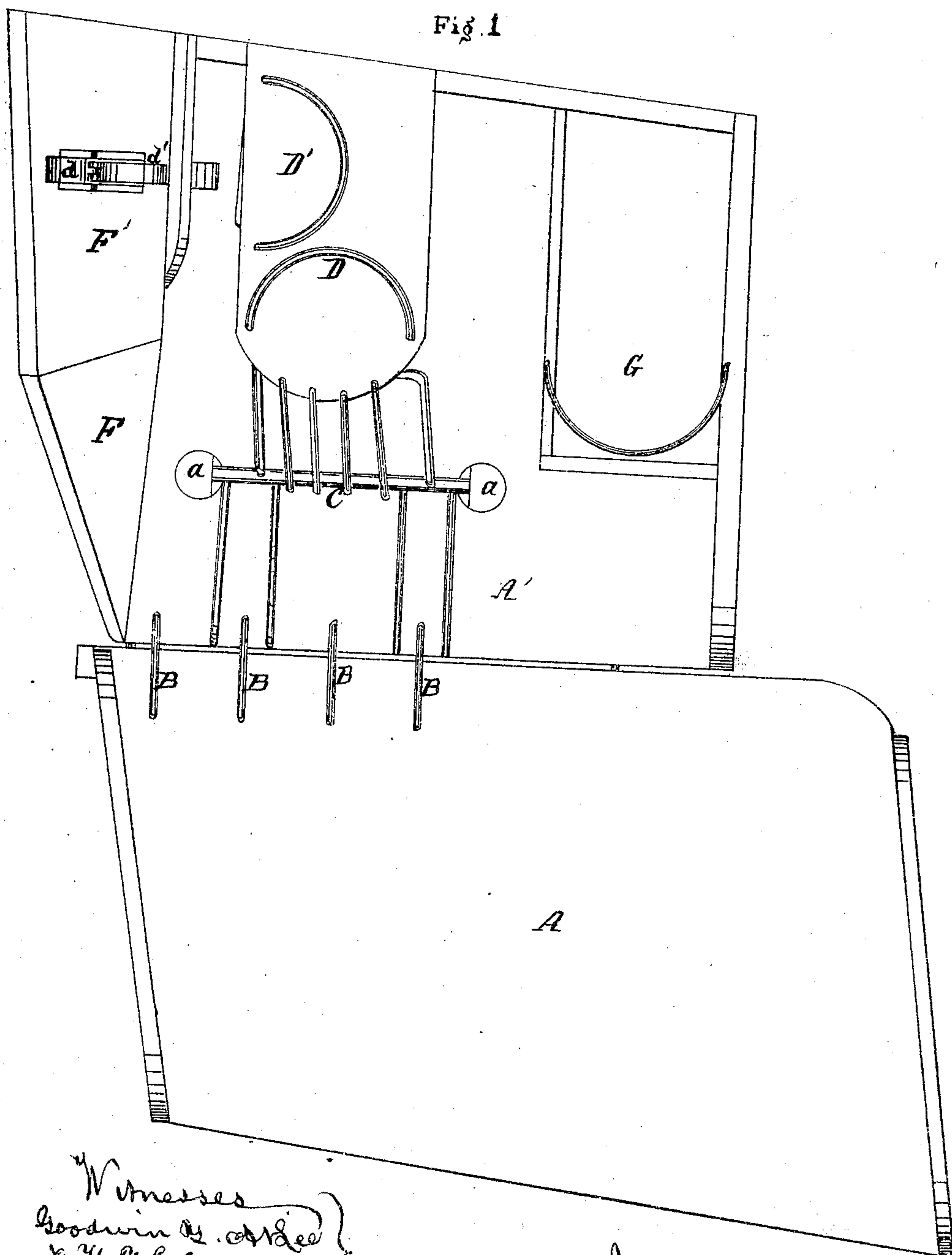
J. Mc Aleer.

Grain Binder.

No 25748

Patented Oct. 11, 1859

Fig. 1



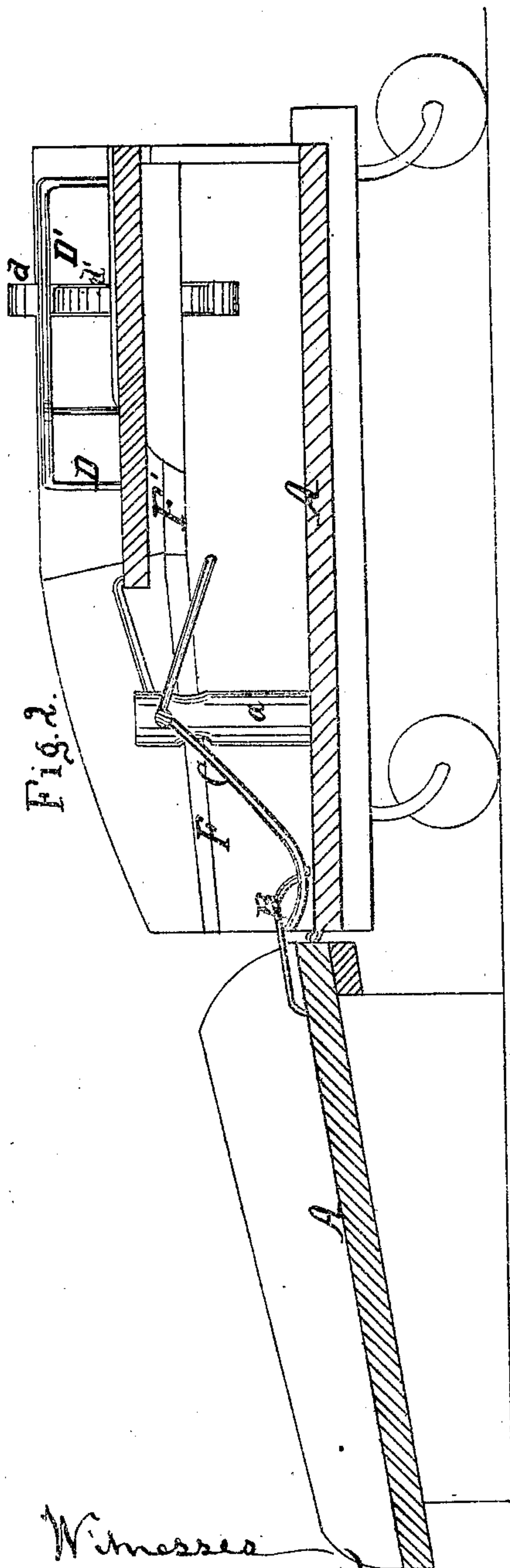
Witnesses  
Goodwin A. Mc Aleer  
O. H. Mc Aleer

Inventor  
James Mc Aleer

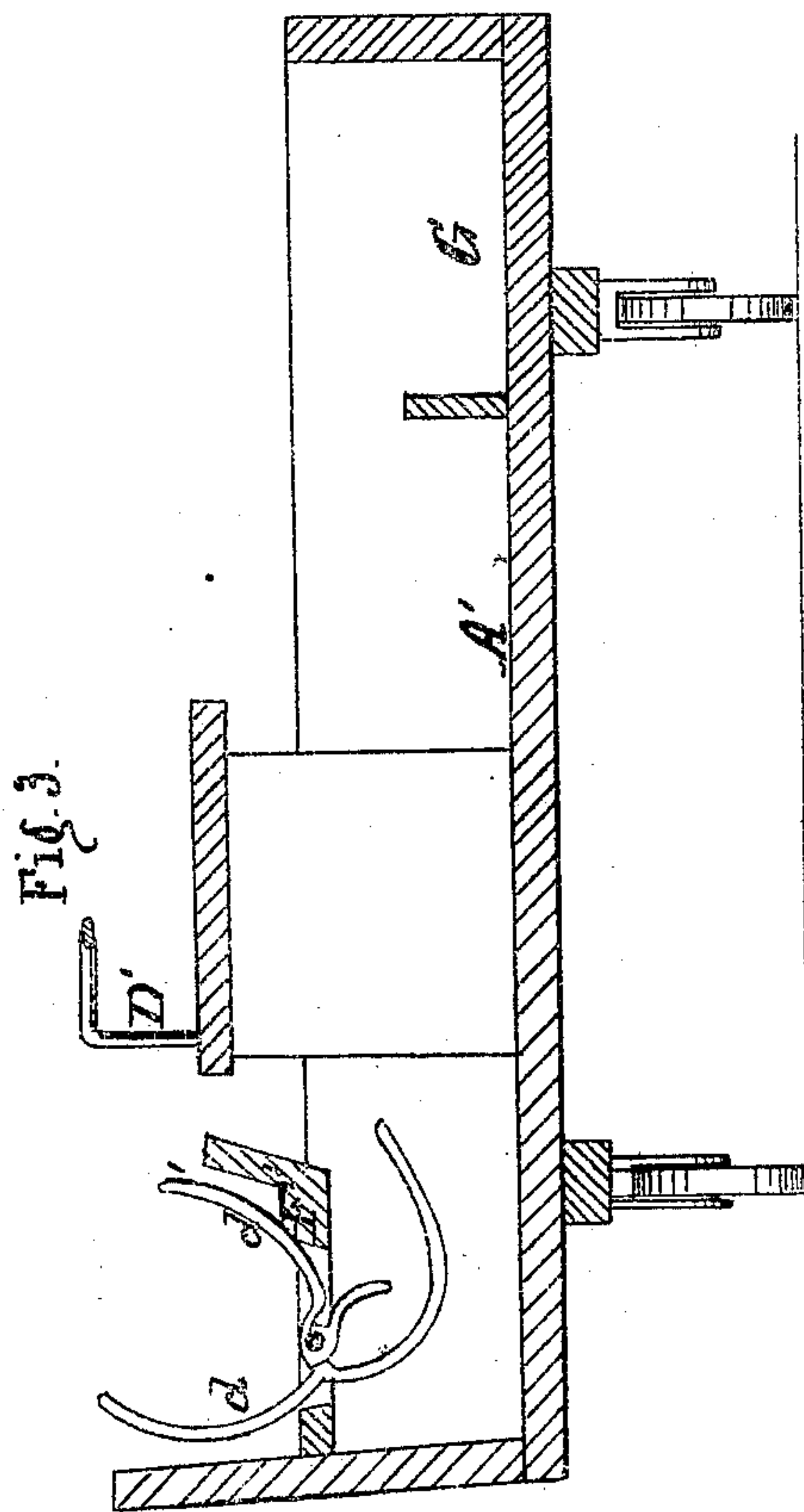
J. McAleer  
Grain Binder.

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Witnesses  
Goswin A. Oslee  
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Inventor  
James McAleer



# UNITED STATES PATENT OFFICE.

JAMES McALEER, OF CHAMBERSBURG, PENNSYLVANIA.

## IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. 25,748, dated October 11, 1859.

*To all whom it may concern:*

Be it known that I, JAMES McALEER, of Chambersburg, in the county of Franklin and State of Pennsylvania, have invented a new and useful Improvement in Grain-Harvesting Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a plan or top view of a harvester with my improvements. Fig. 2 is a vertical longitudinal section, and Fig. 3 a vertical transverse section, of the same.

Similar letters of reference in each of the several figures indicate corresponding parts.

My invention relates to certain improvements in the binding apparatus of C. H. McAleer, patented August 16, 1859; and it consists in the arrangement of two seats, which face at right angles to each other, directly behind the forked elevating device of C. H. McAleer, and alongside a combination gavel-trough and platform, which may be provided with a compressing apparatus, substantially in the manner and for the purpose herein described.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A represents the main platform of a harvesting-machine. It is hinged to an auxiliary frame or platform, A'.

B B are guides or conductors at the rear edge of the same.

C is a pivoted forked elevator. It is hung between posts *a a*, so as to turn up and downward, it only differing from C. H. McAleer's elevation in not having compressing standards combined with it, and in being constructed and arranged so as to elevate the grain somewhat higher than he contemplated. This higher elevation of the grain allows the sheaf of grain to be more conveniently seized by the man who sits on the forward seat.

D D' are two seats arranged on the frame or auxiliary platform A', which supports the elevating device. The seat D is forward of seat D' and faces toward the front of the machine, while the seat D' faces toward the right or rear side of the machine.

F F' is what I term a combination conducting-trough and binding-table. The conducting-trough F is set oblique, inclined downward, and situated in close relation to the elevating device, so that the sheaf of grain, as soon as elevated, may be slipped into and through it onto the table without compelling the man who sits on the seat D to bear its weight. The table F' is situated in front of the seat D', and is provided with a compressing device composed of two curved bars, *d d'*, one of which is stationary and the other movable on a pivot, *e*. The movable iron terminates in a treadle, so that the operator, by applying his foot to it, may compress the sheaf and hold it compressed until he has bound or tied it with the straws which the first man placed around it while elevating it, said straws having been taken from a receptacle, G, on the off side of the auxiliary platform. The raker, who stands on the machine, deposits the cut grain upon the elevator C, and the attendant in his seat D elevates the gavel by depressing the rear end of the frame connected to the shaft of the elevator C by his foot, thus bringing the gavel within his reach.

It will be observed that the binding-table has an inner and outer guard, but provides a free exit at its rear for the sheaf of grain as soon as bound.

From the above description of parts the great utility of my arrangement will be readily perceived and appreciated.

What I claim as my invention, and desire to secure by Letters Patent as an improvement on the binding apparatus of C. H. McAleer, patented August 16, 1859, is—

The arrangement of the two seats D D', one facing at right angles to the other, conducting-trough and binding-table F F', and the elevating device C, all for use together in the manner and for the purpose herein described.

The above specification of my improvement in harvesters signed by me this 30th day of August, 1859.

JAMES McALEER.

Witnesses:

GOODWIN Y. ATLEE,  
C. H. McALEER.