G. H. Spaulding.

Grain Binder.

No. 111,987. Patented. Feb 21. 1871.

Fig. 1.

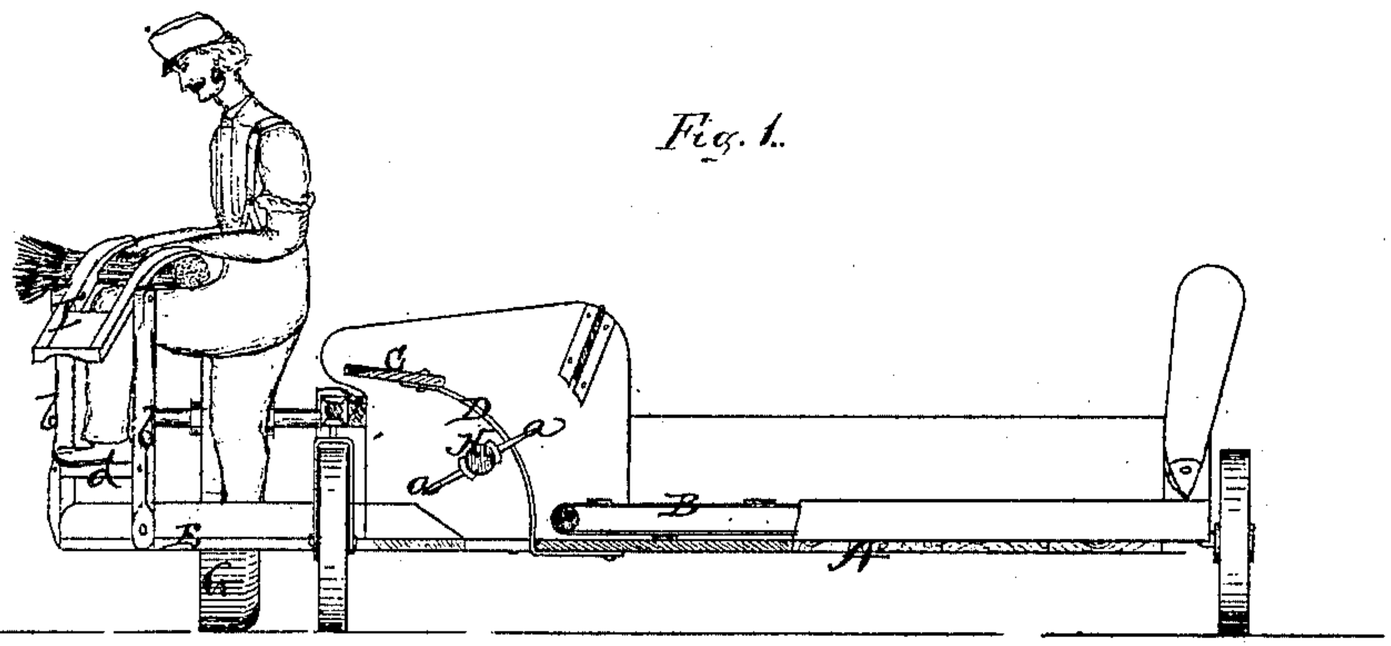
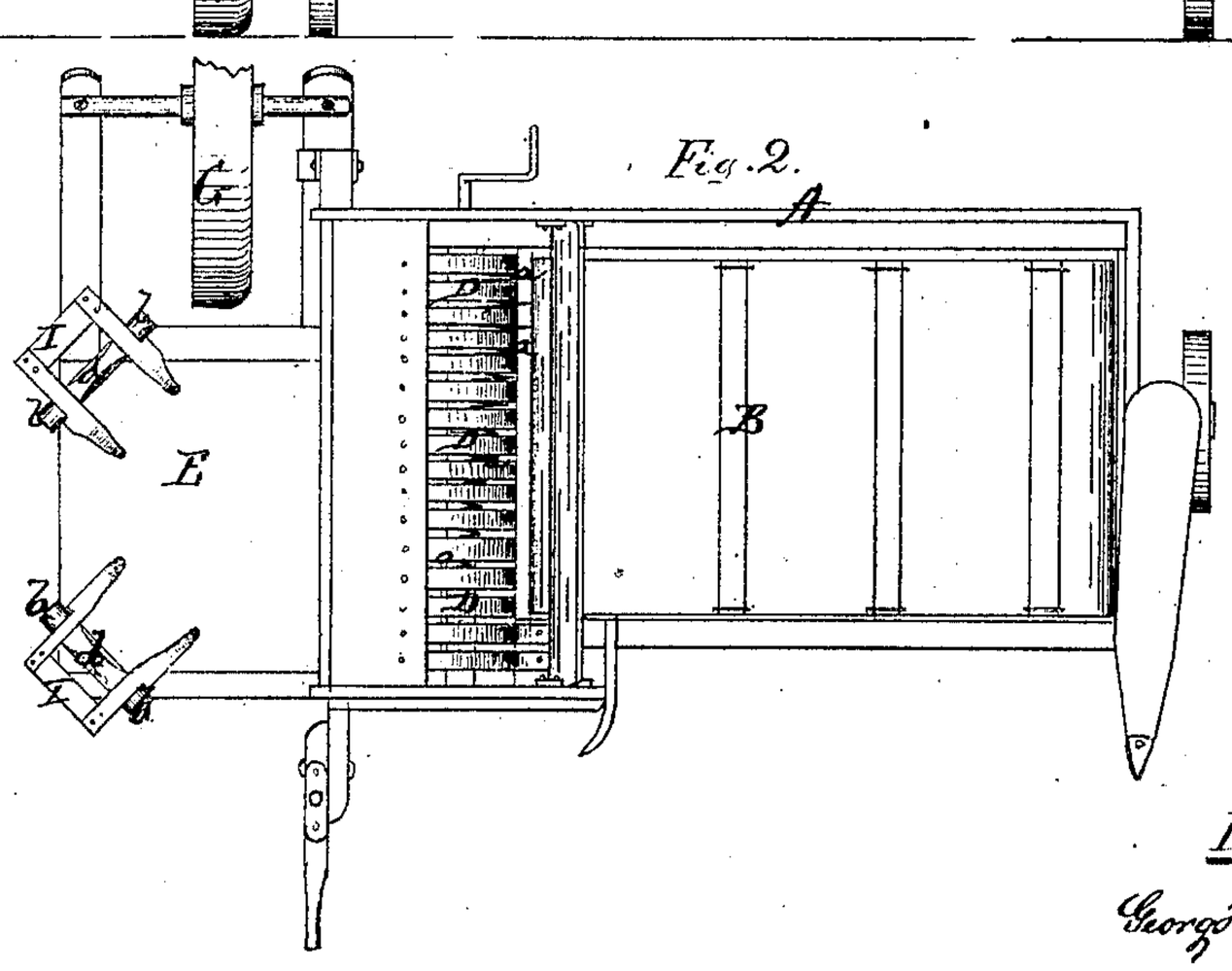


Fig. 2.



Witnesses:

Chas Jacobs

Jas White.

Inventor.

George H. Spaulding

Per

F. H. Alexander

Atty

UNITED STATES PATENT OFFICE.

GEORGE H. SPAULDING, OF ROCKFORD, ILLINOIS.

IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. **111,987**, dated February 21, 1871.

To all whom it may concern:

Be it known that I, GEORGE H. SPAULDING, of Rockford, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Harvesters; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, which form a part of this specification.

My present invention is intended as an improvement upon the harvester patented by me December 17, 1867.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a front elevation, and Fig. 2 a plan view, of my harvester.

I have only deemed it necessary to show so much of my machine as will clearly illustrate the new features claimed by me.

A represents the frame of my harvester. B is the ribbed revolving apron upon which the grain falls as it is cut, and by it is carried to the receptacle C, where is arranged a series of bows, D D, as shown. On the other side of the receptacle C, is placed the binder's foot-board E, which is made smaller than the frame of the harvester, so as to allow room for the master-wheel G, and thereby obviating the necessity of making as long a machine as though said wheel ran entirely behind the machine. Within the bows D D, under the receptacle C, is placed a revolving roller, H, provided with teeth *a a*, which take the grain from the apron B and carry it up to the receptacle C. These teeth are inserted into the roller spirally to the axis of the roller, as seen in the drawing. On the foot-board E are placed two pairs of posts, *b b*, connected at their lower ends by a bar, *d*, upon which the binder puts his foot. Between the upper ends of each pair of posts is pivoted a compressing-finger, I, constructed as shown, which is operated by the knee of the binder so as to press down upon the grain laid across the knee.

It will be seen that I do not use a table nor a support for the bundle, but the bundle rests on the binder's knee or leg, and is compressed by the finger I.

The advantages this mode has over a table are as follows: It relieves the hands and arms from the strain of pulling on the band, to a great extent, to compress the bundle, while with a table, the compressing of the bundle is entirely accomplished by pulling on the band. It also facilitates the binding of rotten straw, which is very hard to do in the usual mode.

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

1. The pivoted compressing-fingers, constructed substantially as described, and arranged to be operated by the knee of the binder.

2. The cylinder D, with the teeth *a a* arranged spirally thereon, in combination with an endless revolving apron, all operating substantially as set forth.

3. The bows D D, in combination with revolving apron B and cylinder H, all constructed and arranged to operate as described.

In testimony that I claim the foregoing as my own, I affix my signature in presence of two witnesses.

GEO. H. SPAULDING.

Witnesses:

JOHN M. WALDRON,

ADDISON V. TEEPLE.