

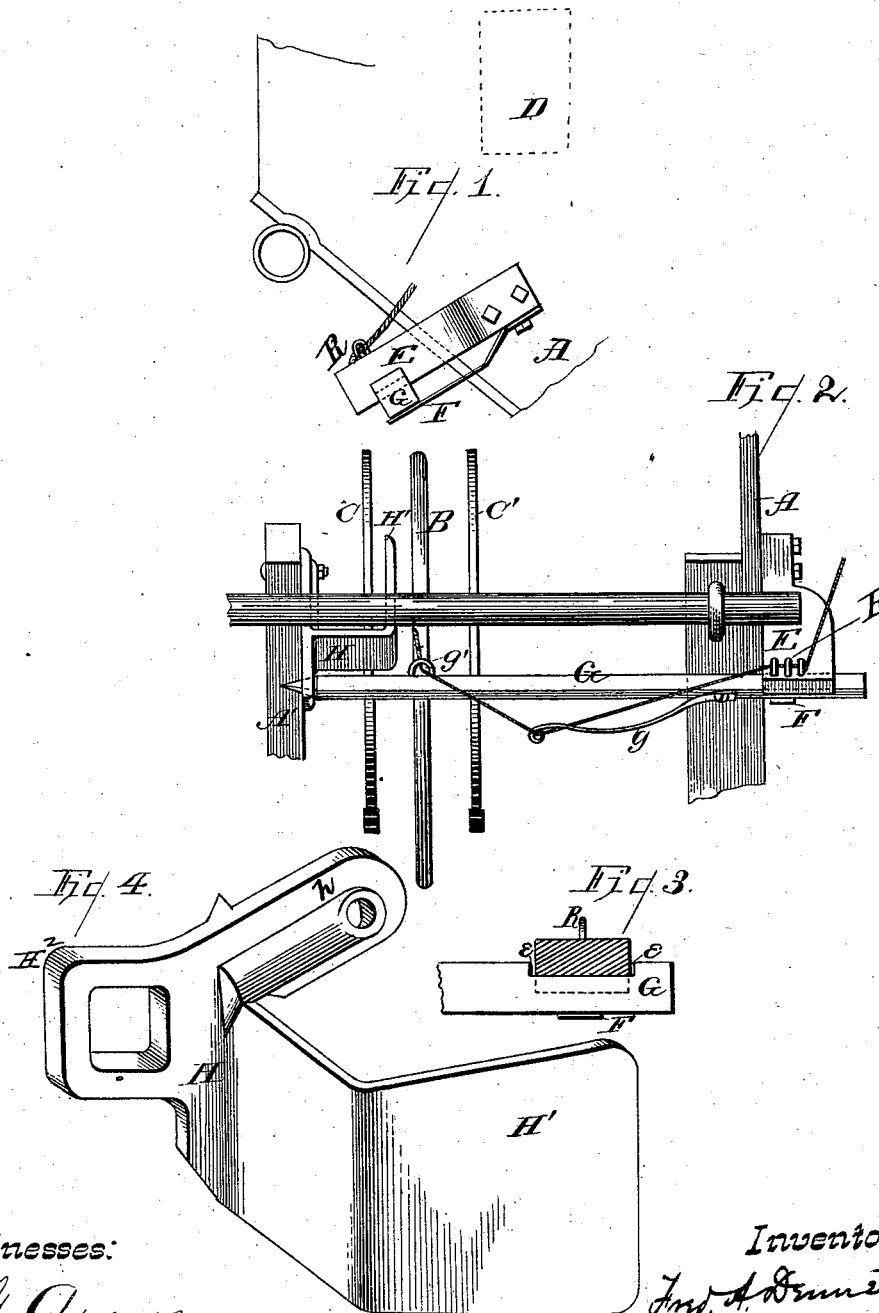
(No Model.)

2 Sheets—Sheet 1.

F. A. DENNETT.
GRAIN BINDER.

No. 261,593.

Patented July 25, 1882.



Witnesses:

E. L. Clemens
Carl Pickhardt.

Inventor:

F. A. Dennett
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(No Model.)

2 Sheets—Sheet 2.

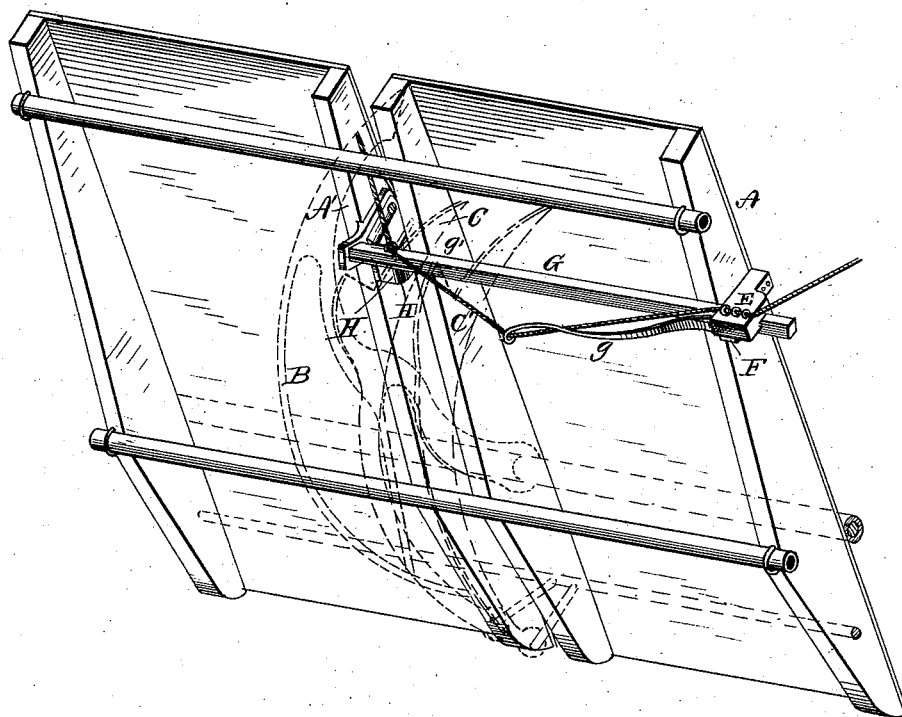
F. A. DENNETT.

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Fig 5.



Witnesses,
J. L. Ourand,
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Inventor:
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UNITED STATES PATENT OFFICE.

FRED A. DENNETT, OF MILWAUKEE, WISCONSIN.

GRAIN-BINDER.

SPECIFICATION forming part of Letters Patent No. 261,593, dated July 25, 1882.

Application filed January 30, 1882. (No model.)

To all whom it may concern:

Be it known that I, FRED A. DENNETT, of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Threading Attachments for Grain-Binders; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to grain-binders; and it consists, first, in a device by which the end of the twine may be placed near to the position of the point of the needle by an attendant from the outside of the machine; and, second, in a device for shielding the twine from the packer-arm, all as will be fully described hereinafter.

In the drawings, Figure 1 is a side view of a portion of the end piece of a grain-binder; and Fig. 2 is a view of the under side of a grain-binder frame, showing my improved cord-guiding eye-bar in place for guiding the cord to a position just in front of the needle. Fig. 3 is a detail. Fig. 4 is a perspective view of a casting that forms part of my invention. Fig. 5 is a perspective of the under side of a binder-table showing my invention.

A A' are portions of the frame-work of a binder. B is the needle, and C C' are the packers. To the end piece, A, I secure the cord-box D, and also an arm, E, and to the under side of the latter I secure a spring, F. Just above the spring F, and near its free end, the arm E is cut out or notched to receive the cord placing and guiding eye-bar G, that is also notched to receive it.

H is a casting, which I secure to the end piece, A', by bolts passed through its flange h. The casting H has an angular arm, H', that passes around behind and to the side of the packer C, and in between it and the needle B and another arm, H², that extends down and inward on a line with arm E, and is provided with a square opening to receive the squared and pointed end of the cord placing and guiding eye-bar G. I may provide the cord placing and guiding eye-bar with a spring, g, secured to it at any point between the eye g' and the end farthest from it, and provide the spring with an eye, through which to pass the cord on its way to the eye g'. I also place eyes k on the arm E, through which the cord is passed

just after it leaves the cord-box D. My cord guiding and placing eye-bar is entirely detachable from the binder, and may be threaded by the attendant as he stands beside the binder and thrust into position without any appreciable loss of time, while before it was necessary for the attendant in carrying his thread to the needle to get under the machine, which was very inconvenient and involved considerable loss of time. Now, after the thread-guiding eye-bar has been threaded, it is only necessary for the attendant to thrust the point of bar G into the opening in arm H² and then pass the cut-out portion of bar G between the arm E and spring F up into the cut-out portion of arm E. The spring F will now prevent the bar G from falling out, while its longitudinal play will be limited by the shoulders e e. The pointed end of bar G, resting in the casting H, will hold the thread in such a position in front of the needle that it can be easily reached from above the table by an attendant and drawn through the eye of the needle by him without his subjecting himself to any inconvenience or danger.

The office of spring g is to take up the slack of the cord between the box and the needle, and the office of the flange H' is to shield the cord as it passes from the eye g' to the needle and prevent it from being caught by the packer C and broken.

What I claim as my invention is—

1. In a grain-binder, a detachable cord placing and guiding eye-bar provided with supports on the frame for its ends, into which it is adapted to be thrust from the end of the binder, as set forth.

2. The detachable cord placing and guiding eye-bar having spring take-up g, as set forth.

3. The casting H, having arm H', in combination with the packer and needle, as set forth.

4. The combination of casting H, arm E, and spring F with the detachable cord placing and guiding eye-bar, as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 10th day of January, 1882.

FRED A. DENNETT.

Witnesses:

H. M. CONGER,
S. S. STOUT.