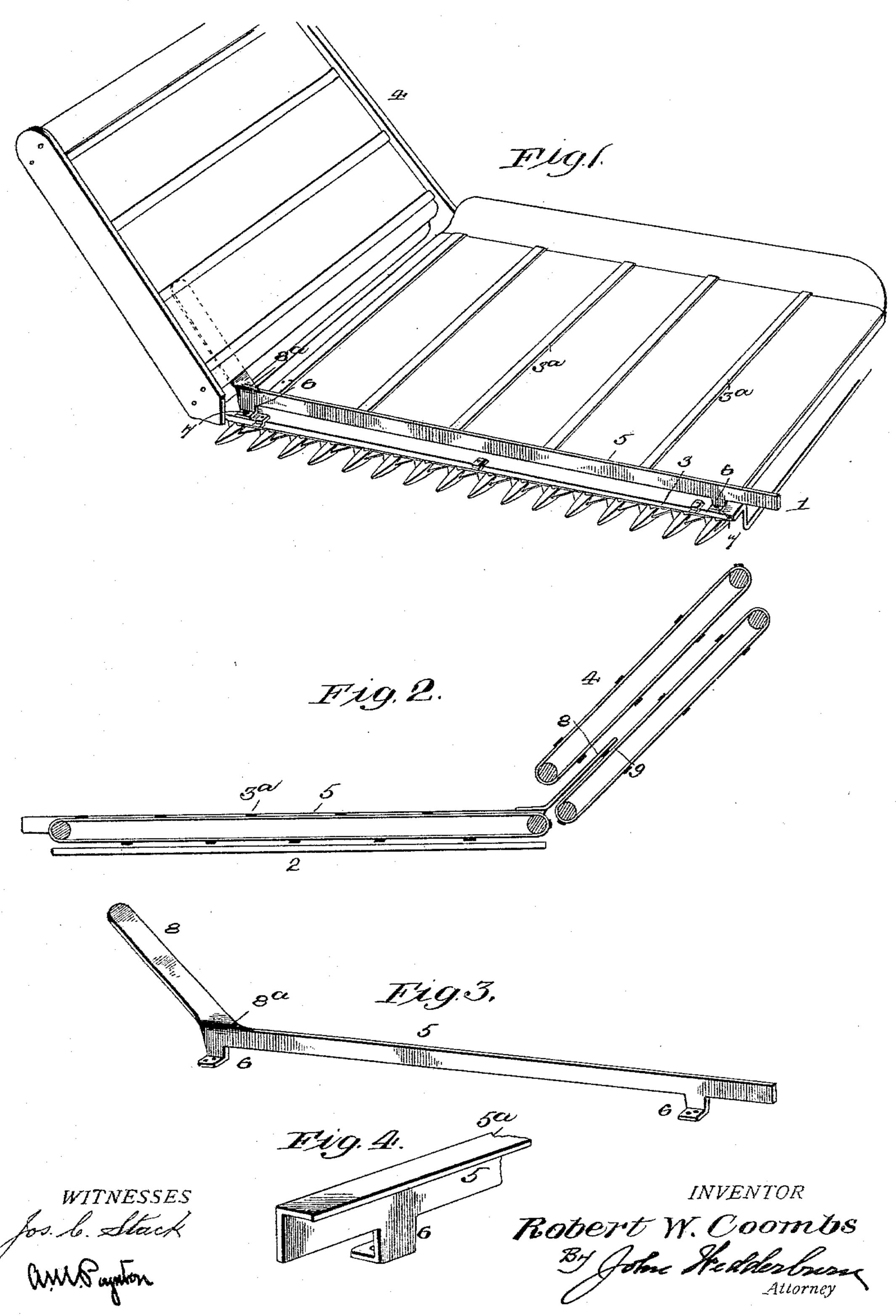
R. W. COOMBS.
GRAIN HARVESTER.

No. 597,635.

Patented Jan. 18, 1898.



United States Patent Office.

ROBERT W. COOMBS, OF McCANNA, NORTH DAKOTA, ASSIGNOR OF ONE-HALF TO OSCAR H. PHILLIPS, OF LARIMORE, NORTH DAKOTA.

GRAIN-HARVESTER.

SPECIFICATION forming part of Letters Patent No. 597,635, dated January 18, 1898.

Application filed March 25, 1897. Serial No. 629, 142. (No model.)

To all whom it may concern:

Be it known that I, ROBERT W. COOMBS, of McCanna, in the county of Grand Forks and State of North Dakota, have invented certain new and useful Improvements in Grain-Harvesters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to a new and useful attachment for harvesting-machines and is intended to be used in connection with the aprons thereof to prevent the grain after having been cut from clogging or otherwise becoming entangled therewith, the object being to provide a device of this character which shall be simple and inexpensive in construction, which can be readily applied to the harvesters now in use, and which is particularly well adapted for use when harvesting flax or other products having a tendency to stick to the apron.

My invention comprises certain novel features of construction and arrangement of parts whereby the above and other important advantages are gained, as will be hereinafter described, and specifically defined in

In the accompanying drawings, Figure 1 represents a detail perspective view of a portion of a harvesting-machine having my invention applied thereto. Fig. 2 is a central longitudinal section of the same, looking from the opposite side. Fig. 3 is a detail perspective view of my invention detached, and Fig. 4 is a detail view of a modified form of my

Similar reference-numerals indicate corre-40 sponding parts in all the figures of the drawings.

invention.

1 represents the platform, 2 the apron, 3 the cutter-bar, and 4 the elevator, of an ordinary harvesting-machine, and as these may be of any ordinary or known construction no detailed description thereof is deemed necessary.

My improved attachment is arranged immediately behind the cutter-bar and adjacent so to the edge of the apron, and consists of a bar of steel or iron 5, having end supports or

lugs 6 formed thereon, the latter being provided with openings for bolts 7, which serve to fasten the bar to the frame of the platform. The bar 5 is so arranged that its upper edge 55 will lie about upon a level with the slats 3° of the apron, and one end of the bar is arranged to extend beyond the outer end of the apron, while the other end has an extension 8, which is turned or twisted at the point 8°, so that it 60 may lie flat upon the slats of the apron 9 of the elevator 4, which latter is of any ordinary or usual construction.

The grain or other product after having been cut by the knife falls over the bar 5 onto 65 the apron 2, the ends of the stocks resting upon the edge of the bar, while the remaining portion thereof will lie upon the apron and between the slats, by which means they are conveyed to the elevator-aprons. The bar 70 5 will thus relieve the apron of a great portion of the weight of the grain and serves to keep one end thereof raised slightly above the apron, and by reason of the bar being arranged to lie close to the edge of the apron 75 all possibility of the grain becoming entangled therewith is positively prevented and its delivery to the elevator-aprons greatly facilitated.

The extension 8 of the bar 5 serves to re-80 lieve the canvas of the elevator over which it extends from a heavy strain and at a point where a drag is liable to occur, and it is to be understood that the attachment heretofore set forth is intended especially for use on a 85 harvester for handling and elevating flax, which has a tendency to pack and gather at certain points on the apron and elevator and impede the proper operation of said parts.

In practice I may bend the upper edge of 90 the bar 5, so as to form a flange 5° at right angles thereto, under which flange apron 2 and slats 3° will travel, and this construction will afford greater security against the entanglement of the grain with the apron. I 95 reserve the right to make this change and otherwise alter the parts herein described in such manner as may be considered to lie within the spirit and scope of my invention.

It will thus be seen that my invention pro- 100 vides in a simple and effective manner an attachment for harvesters which is particularly

well adapted for the purpose for which it is intended, which is not easily gotten out of order, and which can be readily applied to the harvesting-machines at present in use, it 5 being obvious that by its use the heavy strain put upon the apron is very materially reduced and the wear and tear of the canvas materially lessened.

Having thus described my invention, what 10 I claim as new, and desire to secure by Letters Patent, is—

An attachment for a harvesting-machine, comprising a bar arranged adjacent to the platform-apron, and provided with lugs or

supports, the upper edge of the said bar being 15 arranged to cover the edge of the apron and its slats, and an extension adapted to engage the edge of the apron of the elevator, and means to secure said bar in place, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscrib-

ing witnesses.

ROBERT W. COOMBS.

Witnesses:

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G. W. SWENGEL,
A. STONEHOUSE.