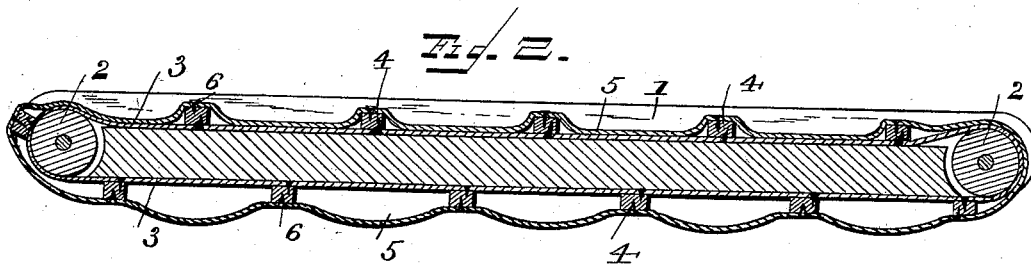
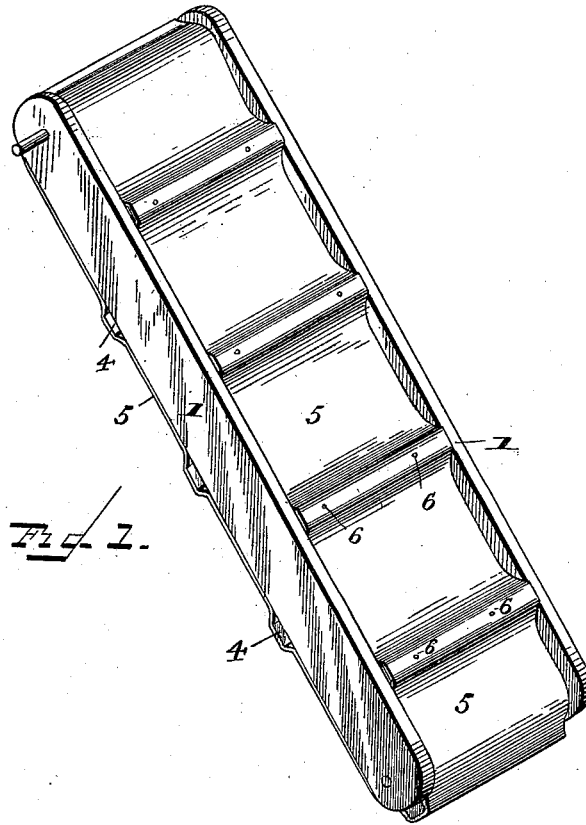


(No Model.)

L. MATHEWS.  
ELEVATOR FOR GRAIN BINDERS.

No. 384,458.

Patented June 12, 1888.



WITNESSES,  
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# UNITED STATES PATENT OFFICE.

LAWRENCE MATHEWS, OF SUMMITVILLE, OHIO.

## ELEVATOR FOR GRAIN-BINDERS.

SPECIFICATION forming part of Letters Patent No. 384,458, dated June 12, 1888.

Application filed February 7, 1888. Serial No. 263,206. (No model.)

*To all whom it may concern:*

Be it known that I, LAWRENCE MATHEWS, a citizen of the United States, and a resident of Summitville, in the county of Columbiana and State of Ohio, have invented certain new and useful Improvements in Elevators for Grain-Binders; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my new and improved elevator for grain-binders, and Fig. 2 is a central longitudinal vertical sectional view of the same.

The same numerals of reference indicate corresponding parts in both the figures.

My invention consists in certain new and useful improvements in elevators for grain-binders, which will be hereinafter fully described and claimed.

Referring to the several parts by their designating numerals, 1 1 indicate the side pieces of an ordinary elevator frame for grain binders, in the upper and lower ends of which are journaled the rollers 2 2, around which the elevator band or apron 3 revolves. Upon this stout canvas apron 3 are secured the usual transverse slats 4.

My invention consists in covering these transverse slats with a band or apron, 5, which it is not necessary to make of as strong material as the lower canvas apron, 3, and which may be made of strong heavy muslin. This outer apron is tacked firmly upon each of the transverse slats by tacks 6, or other suitable fastening devices, and is not drawn perfectly tight between each of the slats, but is left with a little slack or looseness, so as to give between the slats under the weight of the grain. The great

advantage of this outer apron extending over the outside of the slats is that in operation in elevating tangled grain from the platform of a harvester the tangled grain was formerly held by the straight bare edges of the slats, with which it came in direct contact, and was elevated and delivered to the binder in its tangled state, while when my new and improved elevator is employed the apron covering the slats, and slightly loose or slack between the same, will enable the tangled grain to move sufficiently on the apron as to straighten itself out by its own weight. This, it will be readily seen, is a great advantage, and this elevator will give great satisfaction in general use, and especially in handling tall rye, &c.

From the foregoing description, taken in connection with the accompanying drawings, 60 the construction, operation, and advantages of my invention will be readily understood. It will be seen that the outer covering-apron, 5, can be readily applied to any ordinary grain-elevator now in use at a very small cost, and will give perfect satisfaction, and will cause binders to do satisfactory work which have heretofore failed to attain the desired results.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

In a grain-elevator, the combination of an endless belt, the transverse slats secured thereto upon its outer surface, and a loose endless belt or apron secured to the outer surface of said slats, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

LAWRENCE MATHEWS.

Witnesses:

ALLEN A. RAMSEY,  
WILLIAM A. MORGAN.