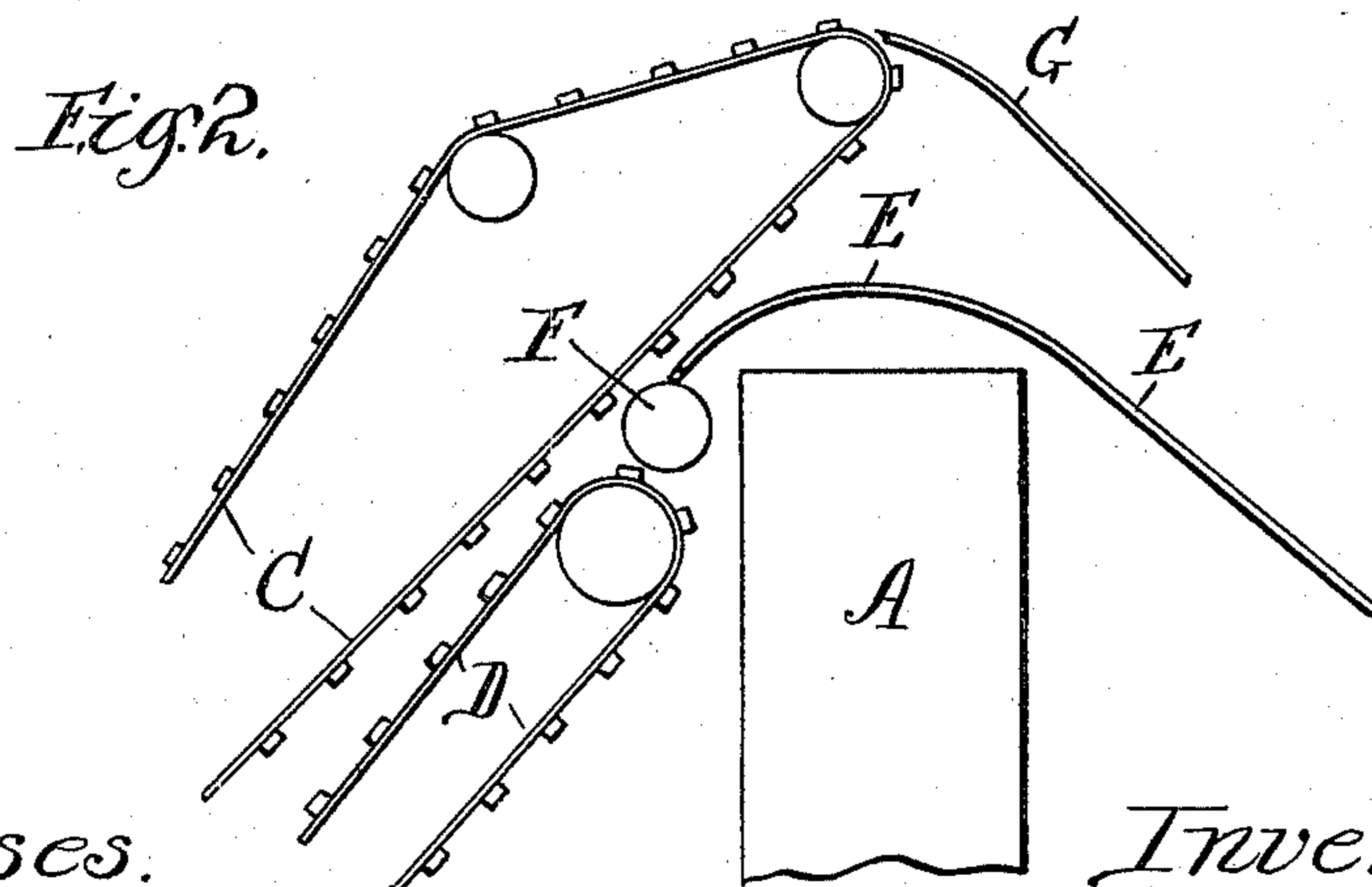
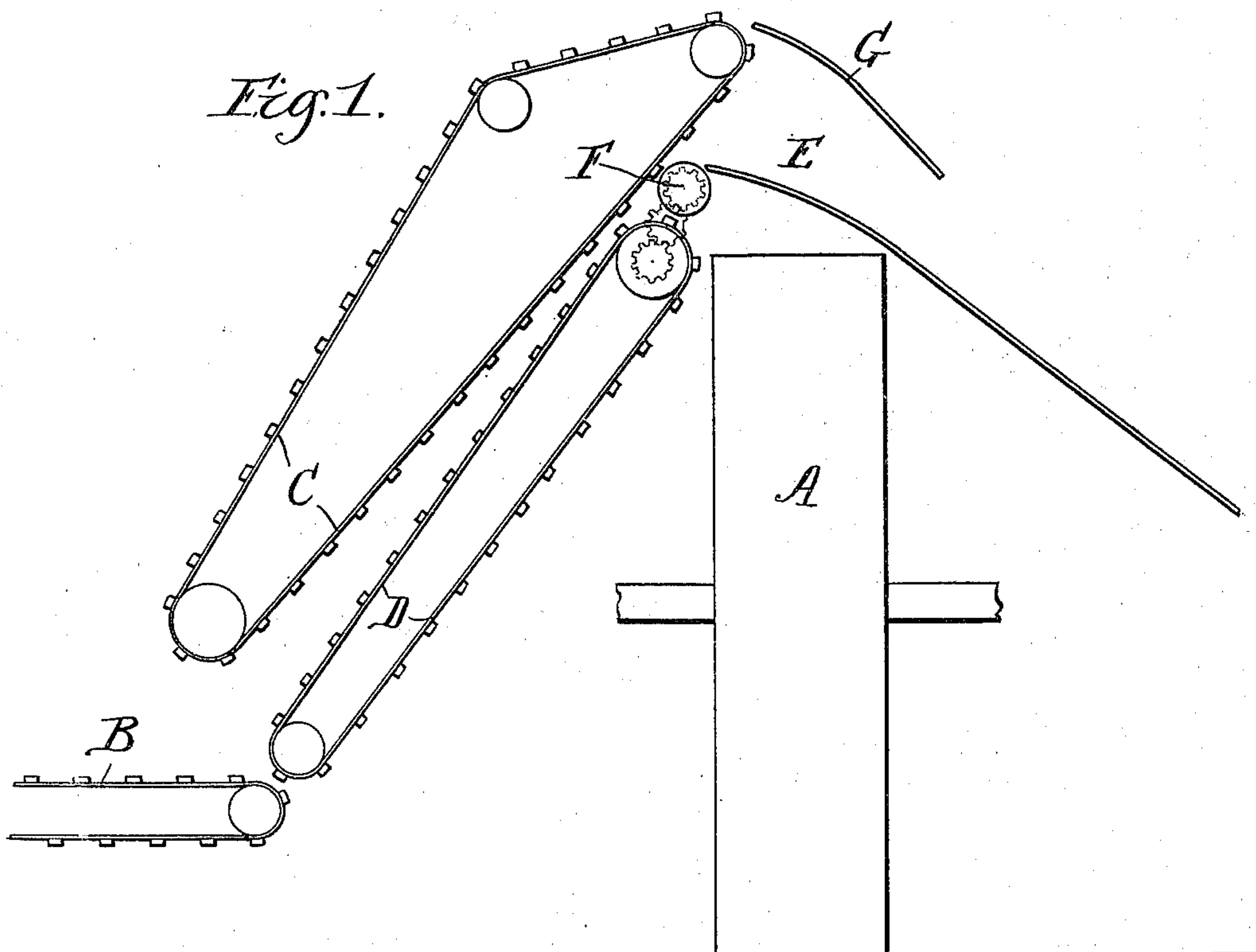


(No Model.)

M. KANE.
HARVESTER ELEVATOR.

No. 598,377.

Patented Feb. 1, 1898.



Witnesses.
S^m M. Rheem
H. H. Humphrey.

Inventor
Maurice Kane
by Brown & Darby
Attys.

UNITED STATES PATENT OFFICE.

MAURICE KANE, OF AUSTIN, ILLINOIS.

HARVESTER-ELEVATOR.

SPECIFICATION forming part of Letters Patent No. 598,377, dated February 1, 1898.

Application filed July 22, 1897. Serial No. 645,506. (No model.)

To all whom it may concern:

Be it known that I, MAURICE KANE, a citizen of the United States, residing at Austin, in the county of Cook and State of Illinois, have
5 invented a new and useful Improvement in Harvester-Elevators, of which the following is a specification.

This invention relates to improvements in harvester-elevators.

10 The invention consists, substantially, in the construction illustrated in the drawings, described in the subjoined specification, and more particularly pointed out in the claims.

Like letters refer to similar parts in the several figures of the drawings, in which—

Figure 1 illustrates a side elevation of a harvester-elevator and some adjacent parts. Fig. 2 illustrates a similar view of a modification of the invention.

20 A designates a master-wheel with its shaft broken away on each side. This wheel is of the usual construction.

B designates a platform-apron, which is of the usual construction and serves to feed the
25 grain to the elevator-aprons.

C and D are the elevator-aprons, which are of the well-known type, and comprise slatted aprons passing around rollers at the top and bottom, the upper apron C also passing around
30 a third roller.

E is the binder deck or table, and G is a grain-shield placed a suitable distance above the upper end of the binder deck or table.

F is a supplemental roller arranged beyond
35 the upper end of the lower elevator-apron and adjacent to the under side of the upper elevator-apron and to the upper end of the binder deck or table. This supplemental or auxiliary roller is rotated in the same direction as the roller at the upper end of the lower
40 elevator-apron, and this is accomplished by any suitable means driven from any convenient part of the machine; but a desirable mechanism for this purpose is a gearing connecting such auxiliary roller with the upper
45 roller of the lower elevator-apron. This auxiliary or supplemental roller constitutes an additional feeding mechanism for elevating the grain and delivering the same upon the
50 binder table or deck, and its main purpose is to prevent the grain from being drawn by the slats of the lower elevator-apron down be-

tween such apron and the binder-table and upon the master-wheel.

In the well-known constructions of har- 55
vester-elevators the lower elevator-apron co- operates directly with the binder table or deck or an extension of the same called the "bridge," and necessarily there must be sufficient space between them to permit a pas- 60
sage of the slats on the apron. In such constructions when the grain for any reason bunches or chokes on the binder table or deck the slats of the lower apron catch some of the grain and draw it down between the 65
binder-deck and the upper roller of the lower elevator-apron. It is the main purpose of the present invention to avoid this trouble, and, as shown, an additional feeding or elevating mechanism is provided between the 70
lower elevator-apron and the binder-deck, which provides a lifting device between such lower elevator-apron and the binder-deck, whereby the grain is given a tendency up- 75
ward and against the lower ply of the upper elevator-apron, which forces it upon the binder table or deck instead of drawing a portion of such grain down under the deck. Of course it is immaterial whether the auxiliary elevat- 80
ing-roller is arranged, as shown in Fig. 1 of the drawings, at a point higher than the master-wheel and with a binder-deck which only partially bridges over the master-wheel or whether such auxiliary elevating-roller is ar- 85
ranged below the upper edge of such master-wheel, as in Fig. 2 of the drawings, and the binder-deck is directly extended across the master-wheel to form a bridge or is associated with a separate bridge for the same purpose. Many variations may be made in 90
the specific construction and arrangement without departing from the spirit and principle of the invention.

What I claim, and desire to secure by Letters Patent, is— 95

1. A harvester-elevator comprising the usual upper and lower elevator-aprons, supported by rollers at each end, a binder-table, and an additional elevating-roller located be- 100
yond the upper end of the lower elevator-apron, and in such proximity to the under ply of the upper elevator-apron as to cooperate therewith in feeding the grain to the binder-table and in preventing such grain af-

ter it is backed up from being fed backward and downward between the lower elevator-apron and the binder-table; substantially as and for the purpose set forth.

- 5 2. A harvester-elevator comprising a binder deck or table, the usual upper and lower elevator-aprons including the rollers for supporting the same, an auxiliary roller located above the lower elevator-apron and in such
10 proximity to the under ply of the upper elevator-apron as to coöperate therewith in elevating the grain and in preventing such grain after it is backed up on the binder-table from be-

ing drawn down by the slats of the lower elevator-apron between such apron and the 15 binder-table, and gearing connecting such roller with the upper roller of the lower elevator-apron; substantially as and for the purpose set forth.

In witness whereof I have hereunto set my 20 hand, this 19th day of July, 1897, in the presence of the subscribing witnesses.

MAURICE KANE.

Witnesses:

FRANK T. BROWN,

HARVEY H. HUMPHREY.