

No. 765,958.

PATENTED JULY 26, 1904.

H. M. COSEY.
DISK HARROW.

APPLICATION FILED MAY 23, 1904.

NO MODEL.

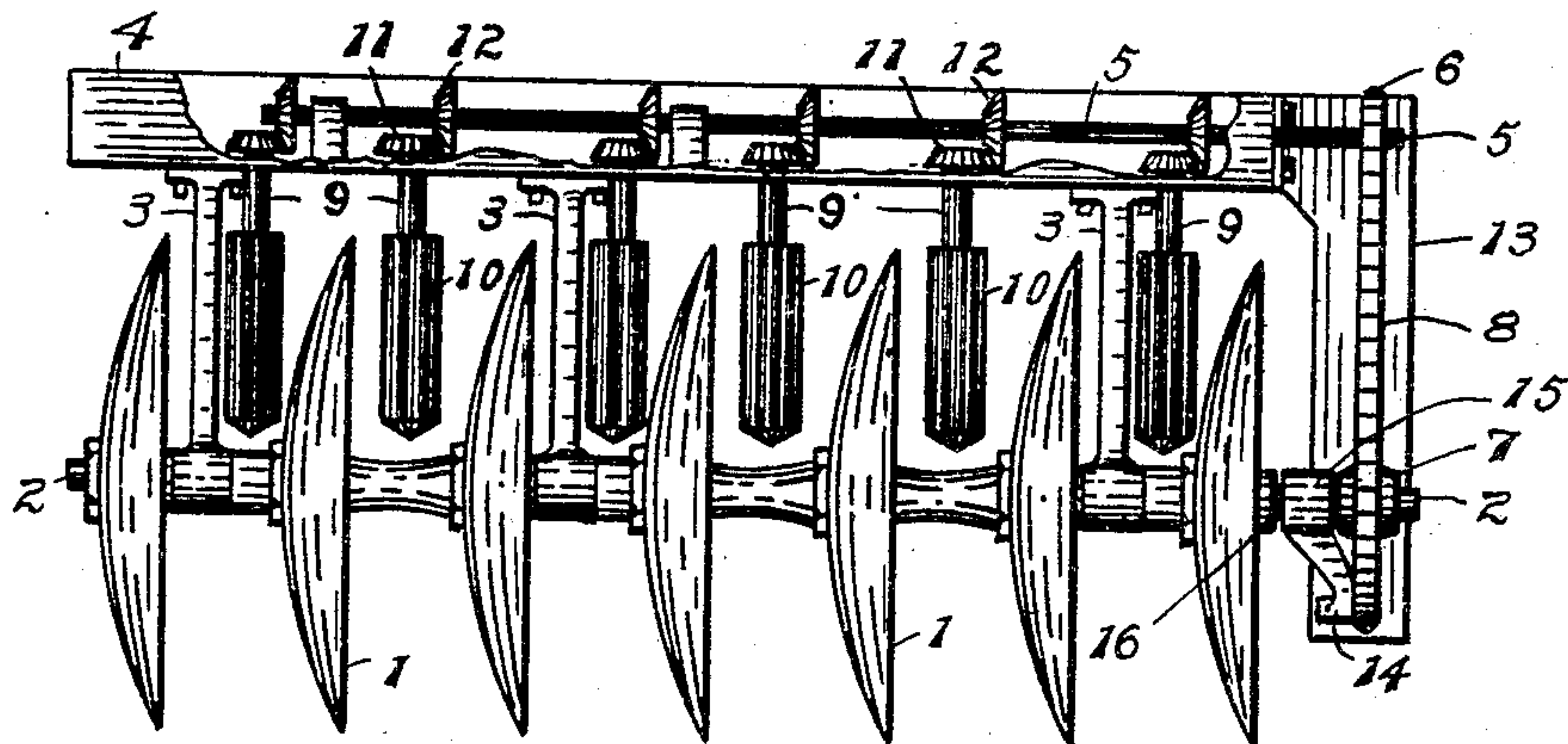


Fig. 1.

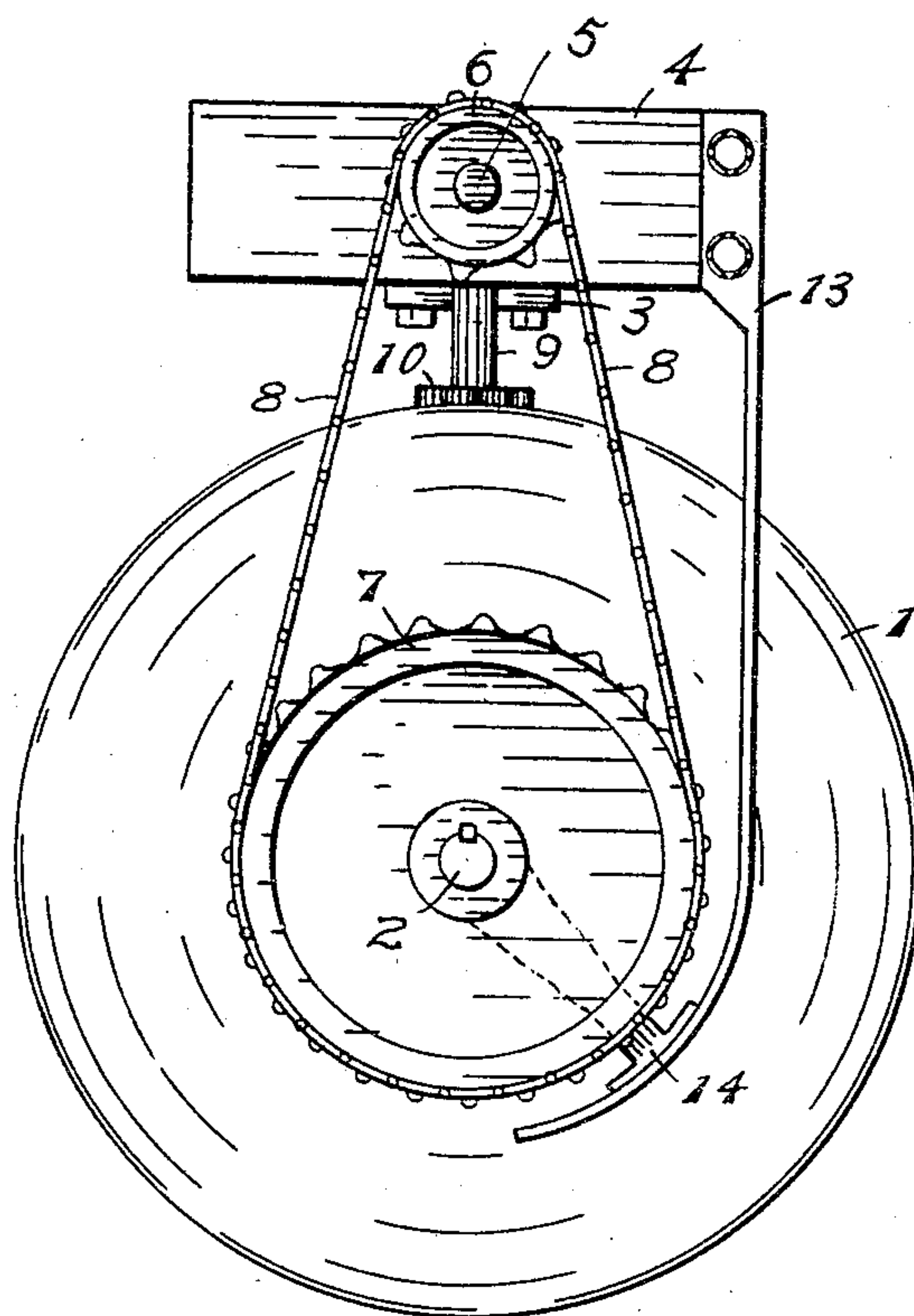


Fig. 2.

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HENRY M. COSEY, OF STERLING, ILLINOIS.

DISK HARROW.

SPECIFICATION forming part of Letters Patent No. 765,958, dated July 26, 1904.

Application filed May 23, 1904. Serial No. 209,152. (No model.)

To all whom it may concern:

Be it known that I, HENRY M. COSEY, a citizen of the United States, residing at Sterling, in the county of Whiteside and State of Illinois, have invented certain new and useful Improvements in Disk Harrows; and I do 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention has reference to disk harrows and is specially intended to keep such devices free from the clogging of dirt or other substance between the disks.

In the drawings, Figure 1 is a rear elevation of one of the sections of a disk harrow embodying my invention, and Fig. 2 is an end elevation thereof.

A gang of disks 1 is secured in the usual way on the shaft 2, so as to rotate therewith when the machine is in motion. Supported above the shaft 2 by means of standards 3 is a metal box 4, journaled in the ends of which is a shaft 5, so as to have rotation therein. On one end of the shaft 5 is fixed a sprocket-wheel 6, actuated from a sprocket-wheel 7 on the end of the shaft 2 by means of a sprocket-chain 8.

Journaled in the floor of the box 4 is a series of vertical shafts 9, supporting a series of corrugated cleaners 10, so arranged as to have one of such cleaners between each pair of the disks. Upon the upper ends of the shafts 9 are small miter gear-wheels 11, meshing with similar wheels 12 on the shaft 5. By this means movement is imparted from such shaft to the shafts 9 to simultaneously rotate the cleaners 10 while the machine is in operation.

To prevent the chain 8 becoming clogged or interfered with by cornstalks or weeds with which it may come in contact, a shield 13 is

secured at its upper end to the end of the box 4 and near its lower end to the shaft 2 by means of a brace 14, extending forwardly from a collar 15, mounted loosely on the shaft 2 between the wheel 7 and a collar 16, fixed on such shaft.

A great amount of trouble is caused in machines of this class by reason of the dirt, stalks, and other substance filling the spaces between the disks until they become inoperative. By the use of my device this difficulty is obviated, as the rotation of the cleaners keeps the material which is carried upward between the disks in an agitated condition, preventing the clogging thereof.

I do not wish to be understood as limiting myself to the particular construction of cleaners which have been herein shown and described, as other forms of such cleaners may be employed without departing from the spirit of the invention. The box 4 can also be differently constructed and could consist of a wooden beam with the parts of my device suitably supported thereby.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

1. In a disk harrow, a series of corrugated cleaners, suitably supported above the disk-shaft, and means for simultaneously rotating such cleaners during the operation of the machine, substantially as shown.

2. In a machine of the class named, the combination of a series of corrugated cleaners 10, supported by the shafts 9, journaled in the box 4; a series of miter-gears 11 on the upper ends of the shafts 9; the shaft 5, journaled in the ends of the box 4; a series of miter-gears fixed on the shaft 5 to mesh with the gears 11, and means for imparting the rotating movement of the shaft 2 to the shaft 5, substantially as described.

3. In a machine of the class named, the combination of a series of corrugated cleaners 10, supported by the shafts 9, journaled in the

box 4; a series of miter-gears 11 on the upper
ends of the shafts 9; a shaft 5, journaled in
the ends of the box 4, and having secured
thereon a series of miter-gears 12, meshing
5 with the gears 11; the sprocket-wheel 6 on the
end of the shaft 5; the sprocket-wheel 7 on the
end of the shaft 2; the sprocket-chain 8 con-
necting the wheels 6 and 7; and the shield 13,

suitably supported to guard the chain 8, sub-
stantially as shown and set forth. 10

In testimony whereof I affix my signature in
presence of two witnesses.

HENRY M. COSEY.

Witnesses:

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