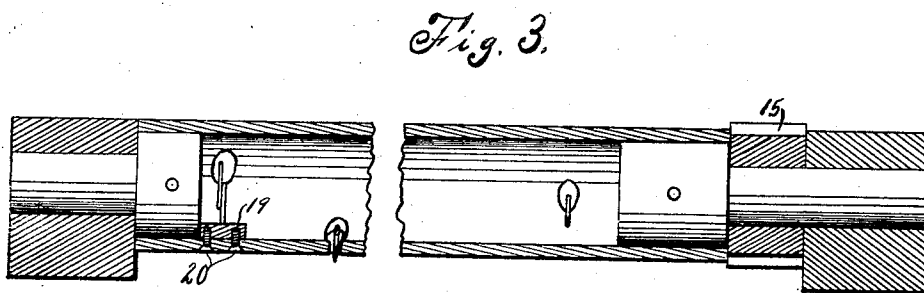
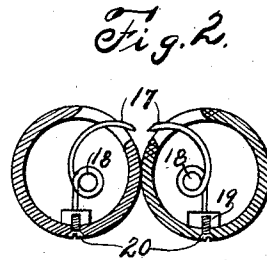
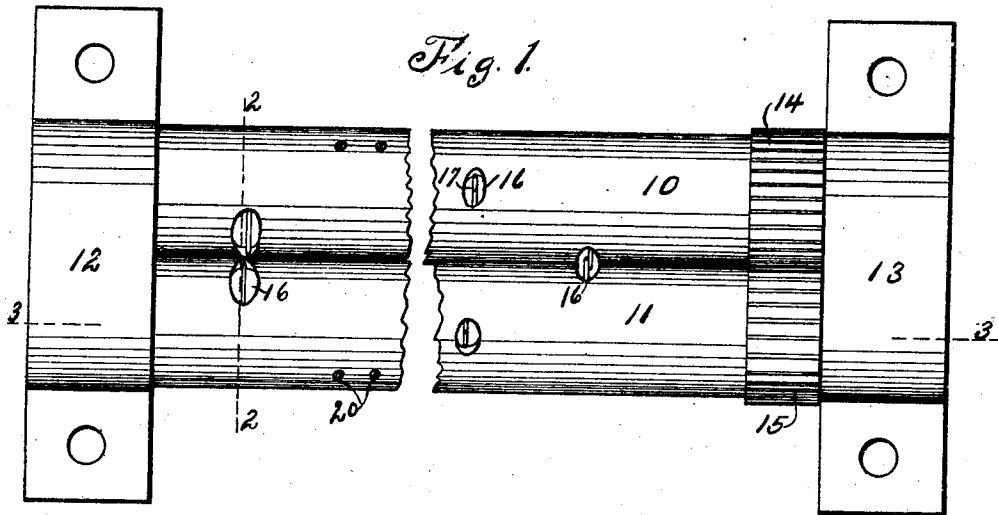


H. E. PURDY.
HUSKING ROLLERS.
APPLICATION FILED MAY 29, 1908.

937,715.

Patented Oct. 19, 1909.



Attest:
Edw. Miller
Earl M. Sinclair

Inventor:
Hiram E. Purdy
By Thomas G. Ormiston, Attys.

UNITED STATES PATENT OFFICE.

HIRAM E. PURDY, OF ROCKWELL CITY, IOWA, ASSIGNOR OF THREE-TENTHS TO HIMSELF, THREE-TENTHS TO J. H. BRADT, ONE-TENTH TO T. W. McCRARY, ONE-TENTH TO E. Z. SMITH, ONE-TENTH TO A. F. DEAN, AND ONE-TENTH TO GEO. L. BROWER, ALL OF ROCKWELL CITY, IOWA.

HUSKING-ROLLERS.

937,715.

Specification of Letters Patent.

Patented Oct. 19, 1909.

Application filed May 29, 1908. Serial No. 435,824.

To all whom it may concern:

Be it known that I, HIRAM E. PURDY, a citizen of the United States of America, and resident of Rockwell City, Calhoun county, Iowa, have invented new and useful Husking-Rollers, of which the following is a specification.

A further object of this invention is to provide an improved construction for husking rollers adapted to be employed in removing husks from ears of corn.

My invention consists in the construction, arrangement and combination of elements hereinafter set forth, pointed out in my claims and illustrated in the accompanying drawing, in which—

Figure 1 is a plan of a part of my improved husking rollers mounted for rotation. Fig. 2 is a cross-section on the indicated line 2—2 of Fig. 1. Fig. 3 is a longitudinal section on the indicated line 3—3 of Fig. 1.

In the construction of the device as shown the numerals 10, 11 designate husking rollers arranged side by side and journaled at their ends in bearings 12, 13. The husking rollers 10, 11 are alike in construction and each of them is formed of a tube and journals in the ends of the tube for rotary mounting in the bearings 12, 13. Intermeshing gears 14, 15 are mounted rigidly on the journals in adjacent ends of the tubes, and by means of the gears the tubes are driven in unison. Each tube is formed with a plurality of slots 16 spaced throughout its length. Husking pins 17 are provided and are mounted in the tubes and project through the slots 16 thereof. Each husking pin is formed of a single length of wire having a coil 18 intermediate of its ends. One end of the wire is mounted through a block 19 on the interior of a tube and opposite a slot 16 and said block is fixed to the tube by screws 20. The end portion of the wire opposite the block 19 is beveled or pointed and projects through a slot 16 of the tube.

Ears of corn to be husked are mounted

on the rollers 10, 11 and said rollers are rotated involutely. During the involute rotation of the rollers the pins 17 engage the husks of the ears and pull said husks downward through and between contacting perimeters of the rollers. The pins yield under pressure and at times recede within the rollers, because of the coils therein and the inherent resiliency thereof. The pins 17 also may yield longitudinally of the rollers under pressure of ears of corn moving longitudinally, because of the slots 16 in said rollers. Such longitudinal movement of the pins is desirable to prevent damage to the pins by contact with an ear being moved along the rollers by extraneous means.

I claim as my invention—

1. In a corn harvesting machine, a husking roller, comprising a tube formed with apertures, resilient husking pins coiled and fixed at one end within said tube and projecting through said apertures, and means for driving said husking roller.

2. In a corn harvesting machine, a husking roller, comprising a tube formed with apertures, journals in the ends of said tube, resilient pins, each formed of a single length of wire with a coil intermediate of its ends, mounted in said tube and fixed at one end thereto, one end of each pin projecting through an aperture of said tube, and means for driving said roller.

3. In a corn harvesting machine, a husking roller comprising a tube formed with lateral apertures, journals in the ends of said tube, blocks mounted within said tube opposite the apertures and resilient pins, each formed of a single length of wire with a coil intermediate of its ends, mounted in said tube and fixed at their inner ends to said blocks, outer ends of the pins projecting through said apertures, and means for driving said roller.

4. In a corn harvesting machine, a pair of husking rollers, comprising tubes mounted for peripheral contact and formed with lateral apertures, journals in the ends of said tubes, resilient pins each formed of a single

length of wire with a coil intermediate of
its ends and mounted within said tubes,
inner ends of the pins fixed to and within
the tubes, outer ends of the pins projecting
5 through said apertures and beveled, and
means for driving said rollers simultaneously
in opposite directions.

Signed by me at Fort Dodge, Iowa, this
tenth day of January, 1908.

HIRAM E. PURDY.

Witnesses:

JOSEPH F. NELSON,
THOMAS W. McCARY.