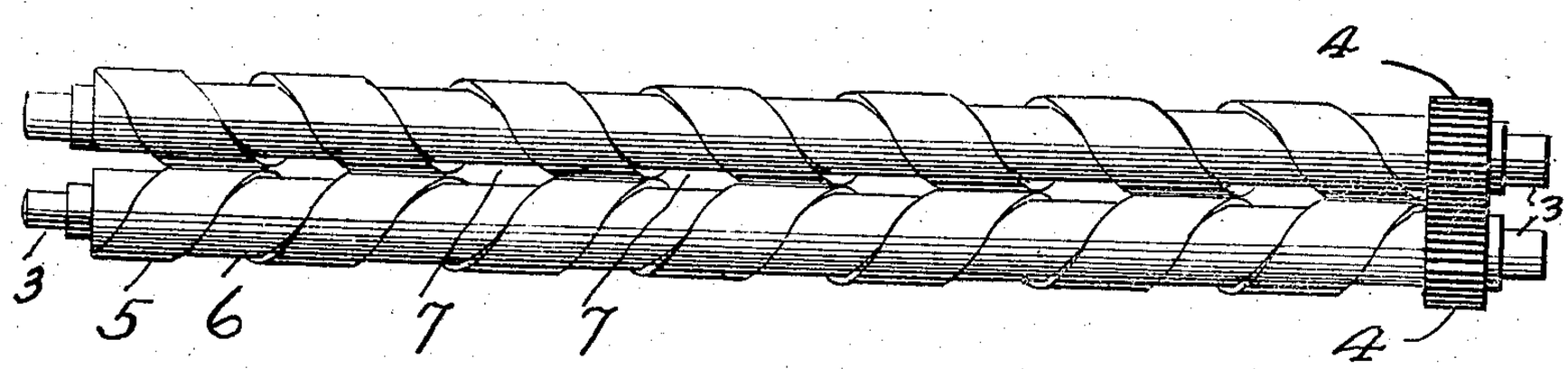
No. 867,035. PATENTED SEPT. 24, 1907.

J., W. & M. HAMM.

CORN HUSKING ROLL.

APPLICATION FILED DEC. 7, 1906.

Fig. 1



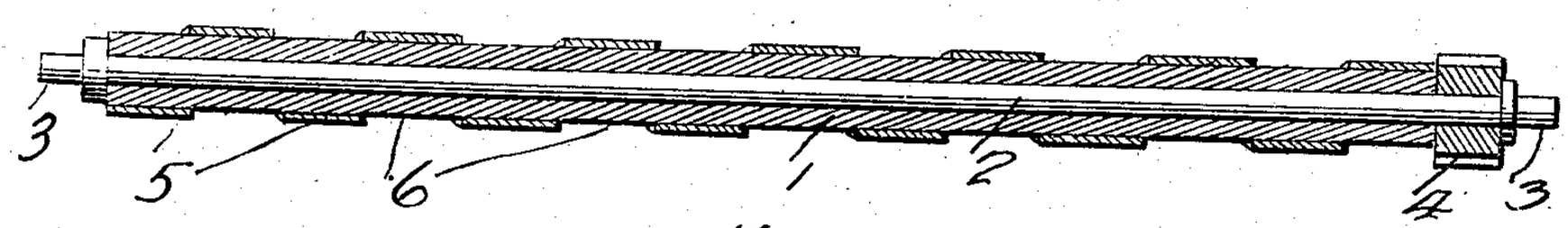


Fig. 2.

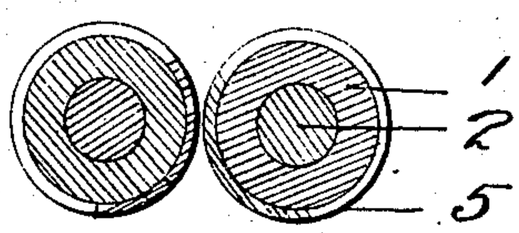


Fig. 3.

Witnesses
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UNITED STATES PATENT OFFICE.

JOHN HAMM, WILLIAM HAMM, AND MARTIN HAMM, OF HONEY CREEK, WISCONSIN.

CORN-HUSKING ROLL.

No. 867,035. Specification of Letters Patent. Patented Sept. 24, 1907.

Application filed December 7, 1906. Serial No. 346,809.

To all whom it may concern:

Be it known that JOHN HAMM, WILLIAM HAMM, and MARTIN HAMM, citizens of the United States, all residing at Honey Creek, in the county of Walworth and State of Wisconsin, have invented certain new and useful Improvements in Corn-Husking Rolls, of which the following is a specification.

This invention relates to new and useful improvements in husking machines and it has particular reference to improvements in the husking rolls thereof.

The invention particularly comprises husking rolls adapted to be arranged in contacting pairs and severally formed, with a continuous spiral irregular surface, the surface being so arranged as to present alternate continuous spiral projections and spiral grooves or ways therebetween.

The invention has for its object to provide a husking roll embodying a novel construction of irregular or spiral surface which performs the dual function of frictionally stripping the husks from the ears of corn fed thereinto and of feeding material therethrough.

The detailed construction will appear in the course of the following description in which reference is had to the accompanying drawings forming a part of this specification, like characters of reference designating similar parts throughout the several views, wherein,

Figure 1 is a plan view showing the manner of arrangement of a pair of husking rolls constructed in accordance with our invention. Fig. 2 is a central longitudinal section of one of such rolls constructed in accordance with our invention, and Fig. 3 is a transverse section of the construction shown in Fig. 1.

In the practical embodiment of our invention we employ a husking roll comprising a tubular stock 1 preferably of wood and having a rounded surface. Projected centrally and axially through the stock 1 is a shaft 2 which at its projecting ends 3 is journaled in suitable bearings provided therefor. Adjacent to one of the ends of the shaft 2 is a pinion 4 by which the roll is rotated. The stock 1 which forms the body of the roll has an irregular engaging surface and in the preferred embodiment of the invention this surface is afforded by a strip of metal 5 which is wound spirally the length of the stock, the spiral winding forming a continuous spiral projection and being so proportioned that the space 6 occurring therebetween affords a continual spiral groove or way.

In Fig. 1 the manner of arranging each engaged pair of husking rolls is shown. The rolls are disposed in contacting parallel relation and the pinions 4 mesh with one another throughout the entire series. By reason of such intermeshing engagement of said pinions, it will be apparent that each roll will be rotated in an opposite direction to the rolls adjacent thereto on either side. For this reason the strips 5 are alternately wound spirally in opposite direction upon the successive rolls. As stated the rolls are disposed in contacting relation and such relation is afforded by the spiral projections which will continuously contact one another during the operation of the apparatus, it being of course understood that the rolls are rotated at the same speed. In like manner the grooves 6 will afford continuous discharge spaces between the rolls as is indicated at 7 in Fig. 1.

In practical use the contacting spiral projections afforded by the strip 5 frictionally strip the husks from the ear and dislodge the grains. The grains and the husks are then fed through the spaces 7 and the spiral direction of the stripping projections materially facilitates this action. It will be understood that suitable means (not shown) is provided for disposing of the husked ears for the husks and dislodged grains fed through the openings 7, but as such means does not form a part of the present invention we have not deemed it necessary to illustrate or describe the same.

It will be apparent that any desired materials can be used for the stock 1 or for the spiral strip 5 and that the manner of constructing the rolls as a whole, that is with non-integral stock and engaging surface, permits of a material reduction of the expense of manufacture and at the same time affords a thoroughly practical and efficient device.

While the elements herein shown and described are well adapted to serve the functions set forth, it is obvious that various minor changes may be made in the proportions, shape and arrangement of the several parts without departing from the spirit and scope of the invention as defined in the appended claims.

Having fully described our invention we claim:

As a new article of manufacture, a husking roll comprising a tubular wood stock, a shaft projected centrally and axially therethrough and a strip of flexible metal spirally wound upon the surface of said stock to afford a continuous spiral projection, such that a continuous spiral groove is afforded between the windings thereof.

In testimony whereof we affix our signature in presence of two witnesses.

JOHN HAMM.
WILLIAM HAMM.
MARTIN HAMM.

Witnesses:
DANIEL KARCHER,
J. D. SCHROEDER.