

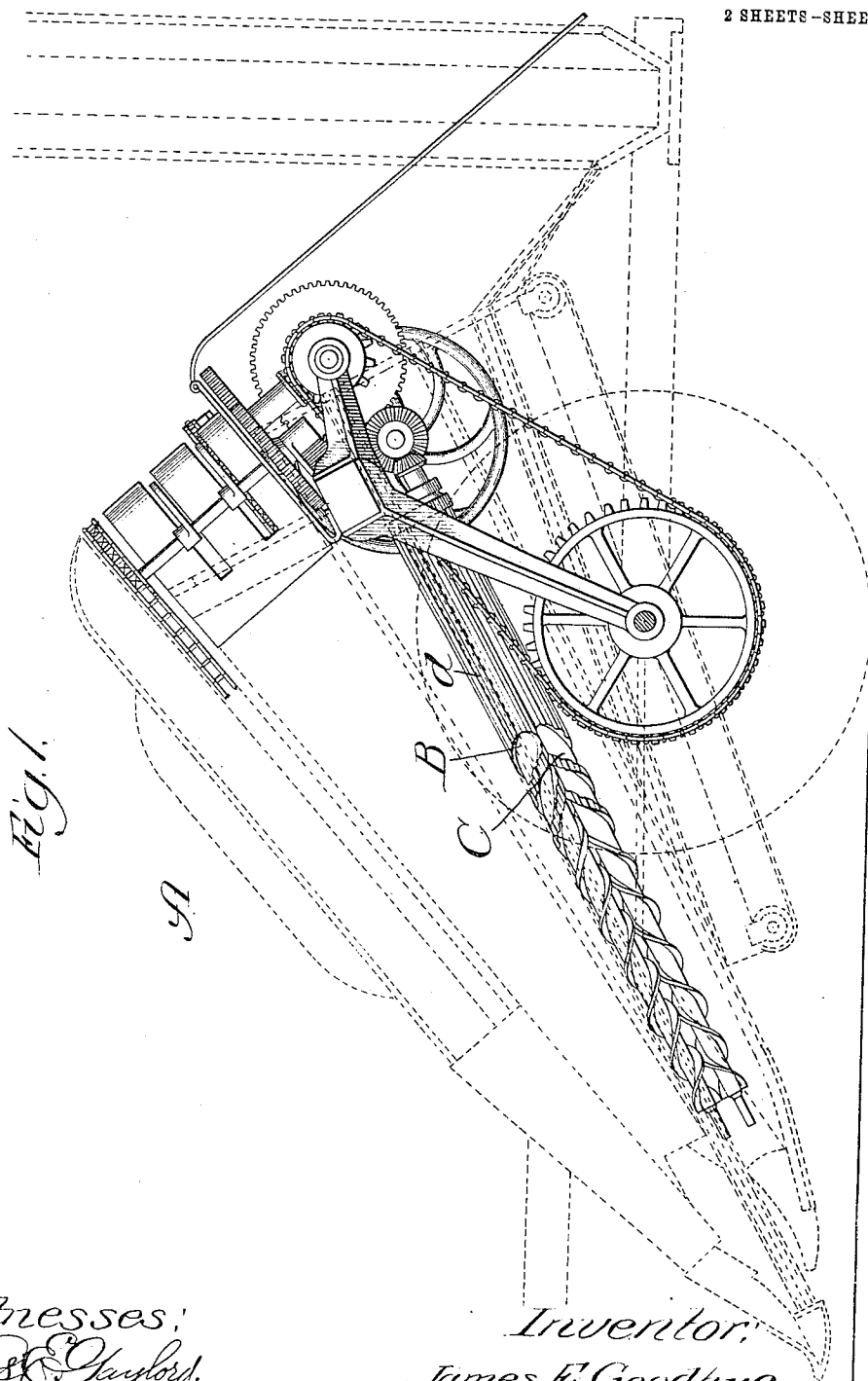
No. 839,472.

PATENTED DEC. 25, 1906.

J. E. GOODHUE.
CORN HARVESTER.

APPLICATION FILED OCT. 29, 1906.

2 SHEETS—SHEET 1.



Witnesses:
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John Enders.

Inventor:
James E. Goodhue,
By Dymfreck Dymfreck, Sec'y & Wiles,
ATTORNEYS

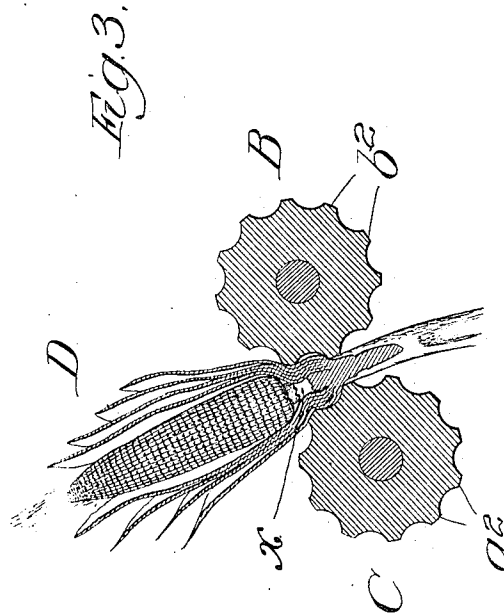
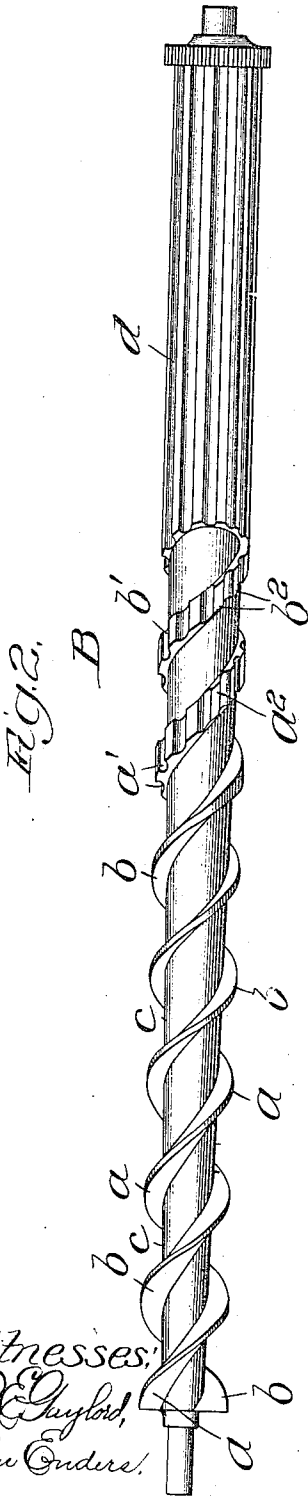
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2 SHEETS—SHEET 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

JAMES E. GOODHUE, OF ST. CHARLES, ILLINOIS.

CORN-HARVESTER.

No. 839,472.

Specification of Letters Patent.

Patented Dec. 25, 1906.

Application filed October 29, 1906. Serial No. 341,089.

To all whom it may concern:

Be it known that I, JAMES E. GOODHUE, a citizen of the United States, residing at St. Charles, in the county of Kane and State of Illinois, have invented a new and useful Improvement in Corn-Harvesters, of which the following is a specification.

My invention relates particularly to an improvement in the construction of the snapping-rollers shown and described in Letters Patent of the United States, No. 787,750, granted to me April 18, 1905, and also disclosed in Letters Patent of the United States No. 788,205, granted to me April 25, 1905.

The object of my invention is to adapt the aforesaid rollers to perform a husking function in addition to their snapping function; and to this end my invention consists in the construction hereinafter described and claimed to render the snapping-rollers also husking or stripping rollers.

In the accompanying drawings, Figure 1 is a view in side elevation, mainly dotted, of a corn-harvester containing my improved rollers; Fig. 2, a view in elevation of one of the two similar improved rollers, and Fig. 3 an enlarged cross-sectional view diagrammatic in its nature taken through the two cooperating rollers and representing them in the act of husking and snapping an ear of corn.

A denotes in its entirety a corn-harvester, that illustrated being as to all details except the rollers to which my invention relates like that shown and described in my aforesaid Letters Patent, No. 788,205, so that it is unnecessary herein to describe that machine. However, my present improvement is not intended to be limited for use with that particular construction of corn-harvester.

B and C are the two similar rollers adapted to be journaled, as usual, at their opposite ends in the frame of the machine A. From the lower end of each roller to a point about midway between its ends it is provided with double spiral blades $a\ b$ of uniform thickness throughout, forming the grooves c . The blade a terminates at its upper end in a wider spiral section a' , having blunt teeth a^2 formed about it, and a similar section b' ter-

minates the corresponding end of the spiral b and is provided with teeth b^2 , like the teeth a^2 . Beyond the section b^2 the roller is preferably fluted to its upper end, as represented at d . These rollers are mounted in the machine A and are actuated as set forth in my aforesaid Letters Patent No. 788,205.

In the travel of the machine along a row of standing corn the cornstalks in succession enter the space between the rollers at their lower or forward ends and are engaged and steadied by the cooperating spirals upon them. As the rollers rise along a stalk until the toothed sections $a'\ b'$ engage the base portion of an ear of corn (represented at D in Fig. 3) the rotation of the rollers causes the teeth of these cooperating sections to bite into the husk at the base of the ear and exert upon it the initial gathering and resultant stripping action, (indicated in said figure,) which is succeeded under the continued action of the teeth by snapping the ear, as at x , and thereafter the continued action of the toothed sections advances the ear through and forces it out of the husk, which thus remains attached to the stalk, while the ear is thrown out. Any waste that may be separated from the stalk and husk by the described operations of the rollers is carried upward between their fluted sections d and discharged from the machine before they can enter and clog its gearing.

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

1. In a corn-harvesting machine, the combination with the frame, of a pair of inclined, rotary and cooperating combined snapping and husking rollers provided along their lower forward end portions with spiral blades forming stalk-engaging grooves and terminating at their upper ends in toothed sections, for the purpose set forth.

2. In a corn-harvesting machine, the combination with the frame, of a pair of inclined, rotary and cooperating combined snapping and husking rollers, provided along their lower forward end portions with spiral blades forming stalk-engaging grooves and terminating at their upper ends in toothed sections, with fluted sections on the upper and

rear end portions of the rollers, for the purpose set forth.

3. In a corn-harvesting machine, the combination with the frame, of a pair of inclined,
5 rotary and coöperating combined snapping and husking rollers, each provided along its lower forward end portion with spiral blades

forming stalk-engaging grooves, each blade terminating at its upper end in a toothed section, for the purpose set forth.

JAMES E. GOODHUE.

In presence of—

W. B. DAVIES,

C. W. WASHBURNE.