

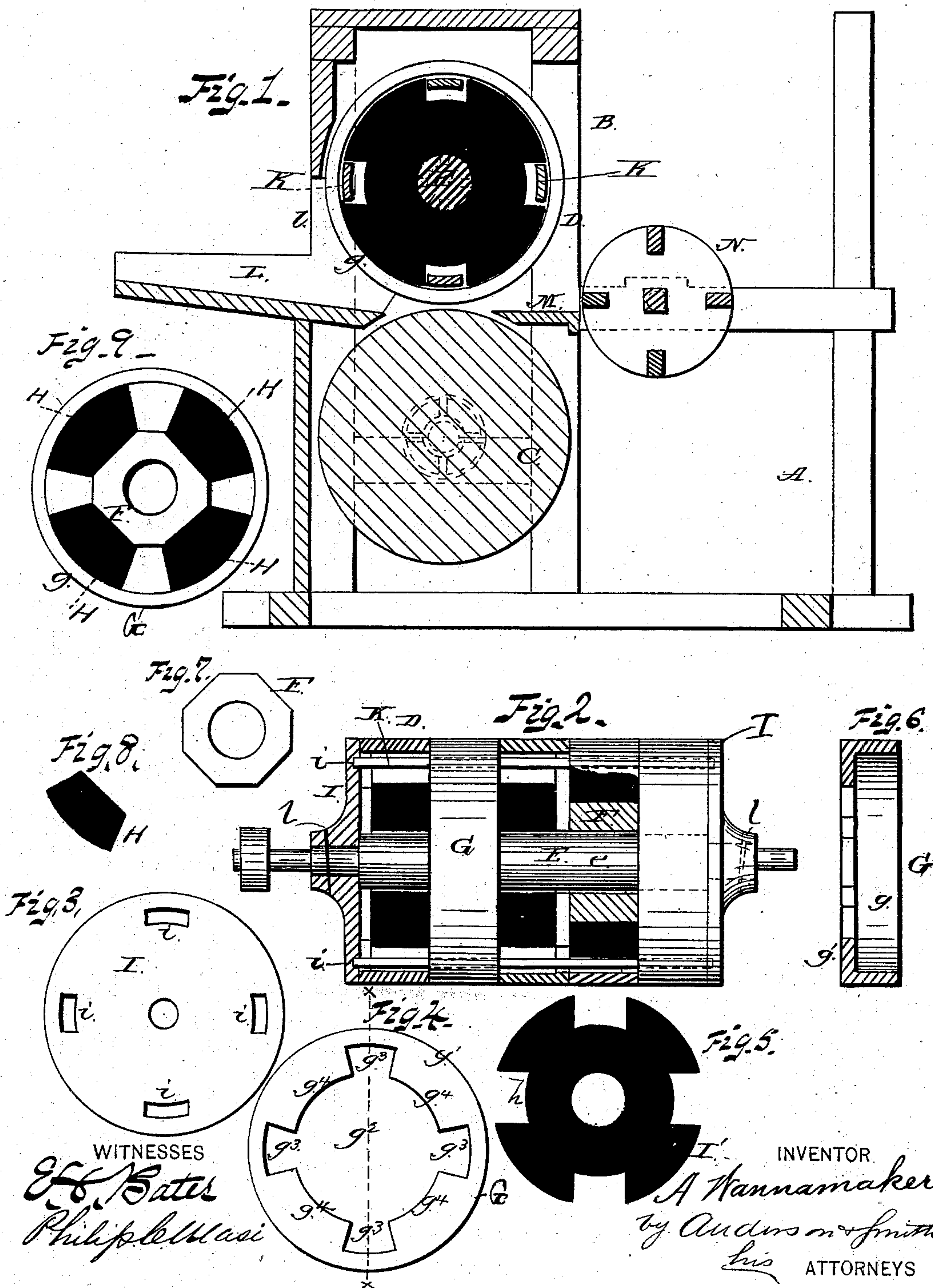
(No Model.)

A. WANNAMAKER.

FLAX THRASHER.

No. 274,866.

Patented Mar. 27, 1883.





# UNITED STATES PATENT OFFICE.

ALFRED WANNAMAKER, OF WEST SALEM, ASSIGNOR TO ANDREW HULLINGER, OF OBERLIN, OHIO.

## FLAX-THRASHER.

SPECIFICATION forming part of Letters Patent No. 274,866, dated March 27, 1883.

Application filed May 7, 1881. Renewed December 7, 1882 (No model.)

*To all whom it may concern:*

Be it known that I, ALFRED WANNAMAKER, a citizen of the United States, and a resident of West Salem, in the county of Wayne and State of Ohio, have invented a new and useful Improvement in Flax-Thrashers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a cross-sectional view of the machine. Fig. 2 is a view, partially in section, of the sectional yielding roller. Fig. 3 is an inner face view of one of the disks I. Fig. 4 is a plan view of one of the spring-incasing sections of which the cylinder D is composed. Fig. 5 is a plan view of the modified rubber spring *h*. Fig. 6 is a vertical sectional view of the cap or incasement shown in Fig. 4. Fig. 7 is a plan of the block used in connection with the segment-springs H and the cylindrical section G. Fig. 8 represents one of the segment-springs; and Fig. 9 is an end or face view of the incasement G, block F, and segment-springs H shown in connection prior to being placed in position upon the shaft E.

This invention has relation to flax-thrashers for saving the seed, and is used in connection with a grain-separator; and the invention consists in the construction and novel arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the claims appended.

Referring by letter to the accompanying drawings, A designates the frame; B, the housing; C, the solid lower cylinder, and D the upper sectional cylinder.

E designates the shaft of the sectional cylinder D, which cylinder is composed of yielding sections, constructed as hereinafter explained.

L designates the feed-chute, through which the seed-flax is fed to the cylinders.

M designates the beater-board, located at a point where the seed-flax, which is fed forward by the cylinders C and D, will receive the blows from a revolving beater, N, as shown in the drawings.

G designates a cylindrical section or cap having an annular flange, *g*, which forms the periphery of one of the sections of the yielding cylinder D, and *g'* is a vertical flange extending inwardly at a right angle to the peripheral flange *g*.

H designates rubber springs having curved outer edges to fit the curve of the flange *g*, and plane bases to meet plane surfaces on the blocks F upon the shaft E.

A modification of this construction is shown in Figs. 4 and 5, wherein the block F and springs H are dispensed with, and the cap G is provided with dovetail slots *g*<sup>3</sup> and curved bearings *g*<sup>4</sup>, and a rubber block, *h*, adapted to fit into this conformation, and permit the section thus formed to be slid upon the shaft E, is substituted. In either case a yielding section is formed when in place upon the shaft E. After these sections are formed and slipped upon the shaft E the dovetail slots or notches *g*<sup>3</sup> are brought into alignment, and horizontal keys or strips K are passed through the notches and their ends permitted to project beyond the outer sections, as shown. Disks I, perforated centrally to slide upon the journals of the shaft E, and provided with recesses *i* in their inner faces to receive and hold in position the projecting ends of the strips K, are slipped upon the journals of said shaft and keyed thereon by means of pins *l*, thereby completing the yielding sectional cylinder D, which may be then placed in position in the housing B. The rollers or cylinders C and D may be driven by gearing of any suitable kind. The object of making the upper cylinder of yielding sections is to permit bunches of seed-flax of varying sizes to pass between it and the lower cylinder without clogging or straining the mechanism.

As before stated, this device is to be used in connection with a grain-separator.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a flax-thresher, a cylinder composed of yielding sections consisting of cylindrical caps G, springs, H, perforated block F, the

shaft E, securing-strips K, and recessed disks I i, keyed to the journals of said shafts, substantially as specified.

2. The combination, with the shaft E, of a  
5 roller-section composed of the cap G, having the flange g, and an annular spring-support incased therein and adapted to be slipped upon the shaft, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ALFRED WANNAMAKER.

Witnesses:

JOHN FASIG,  
JAMES STEVENSON.