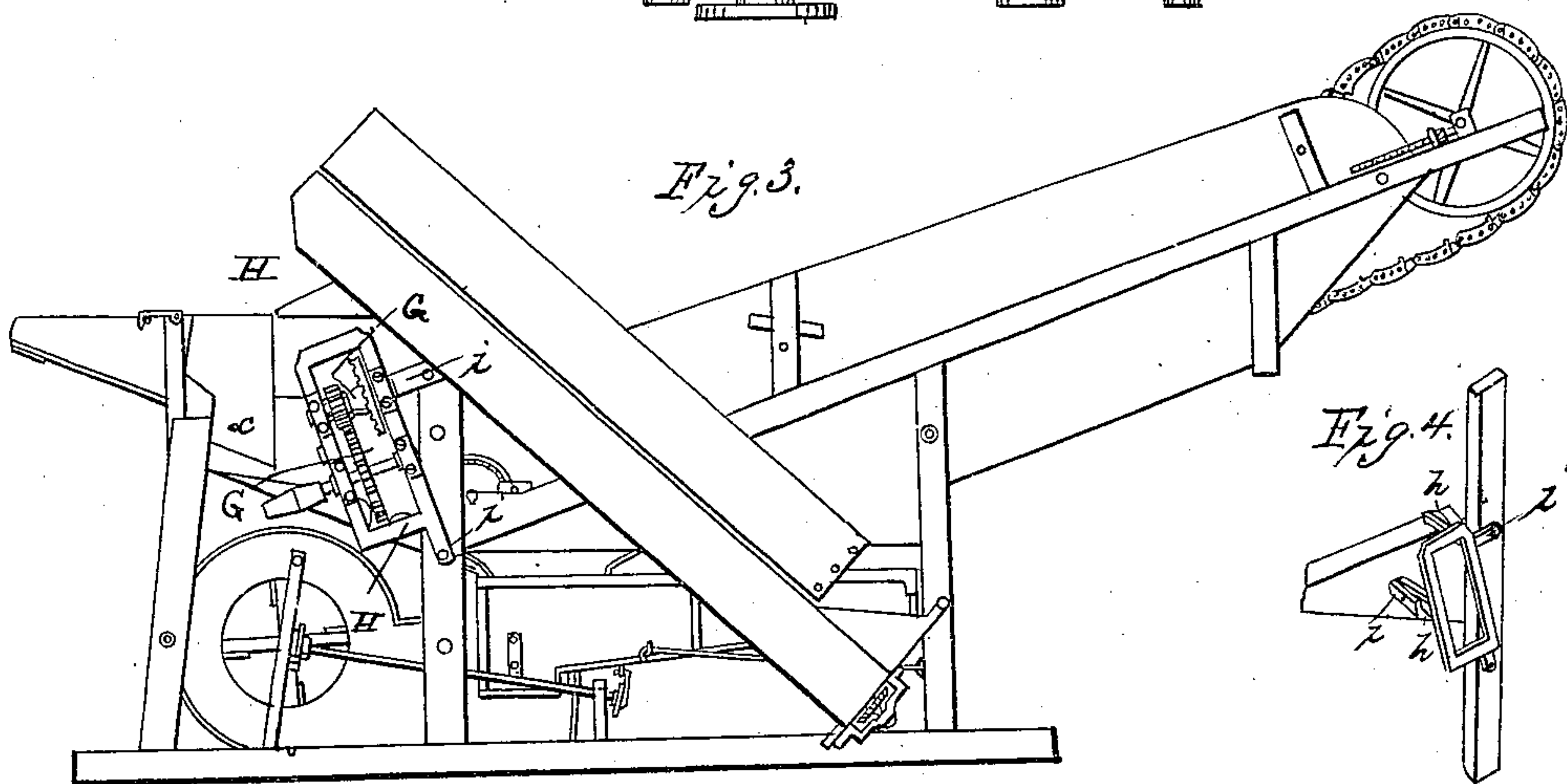
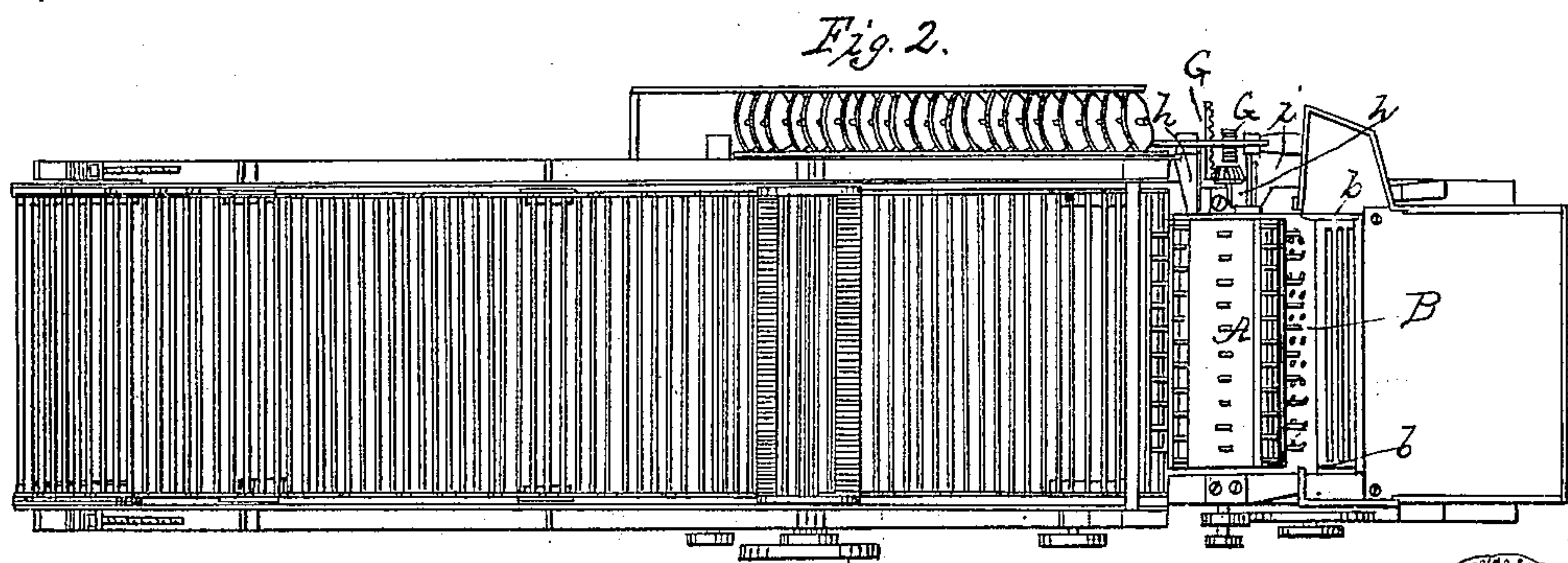
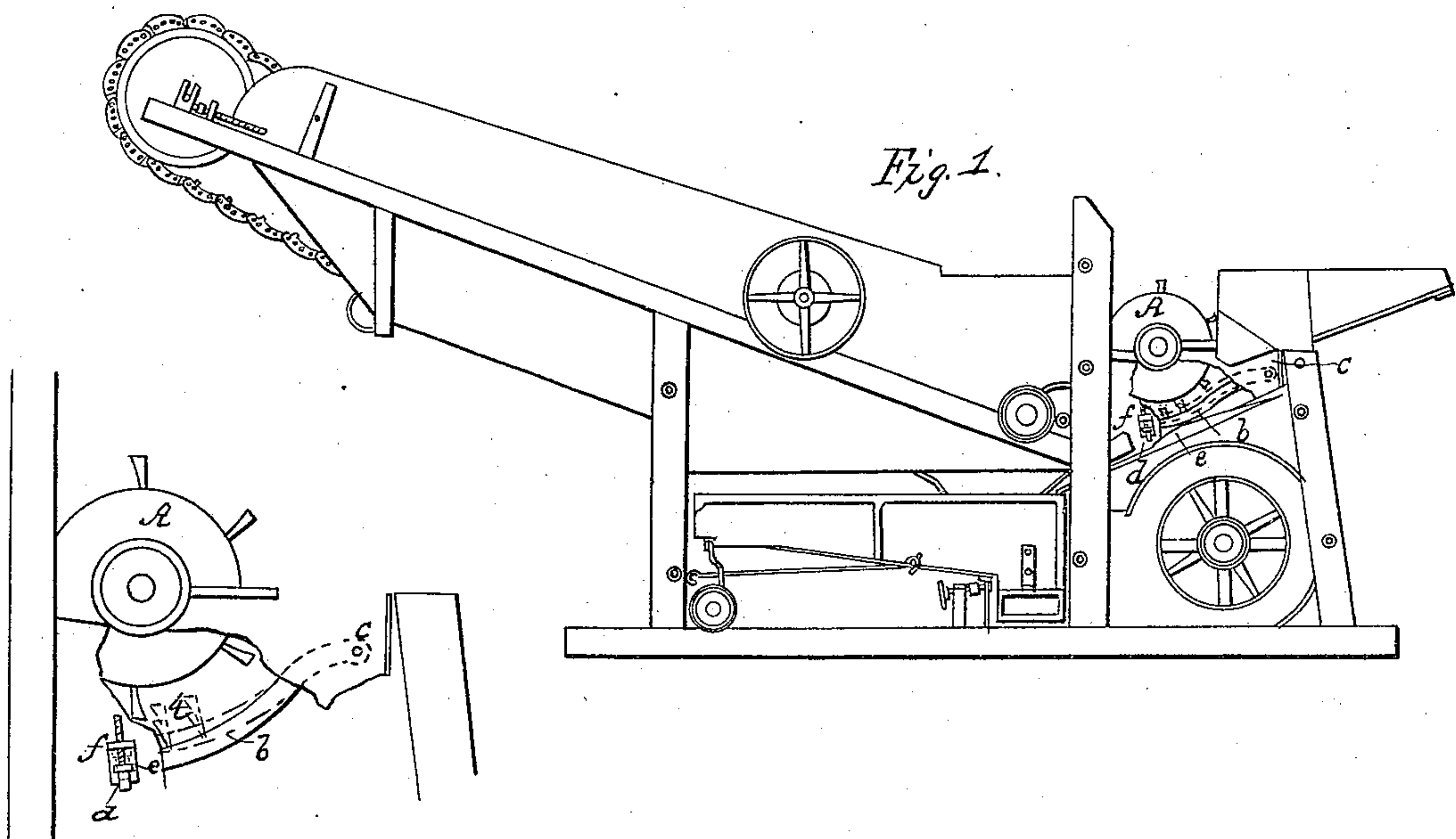


J. R. MOFFITT.
Thrashing Machine.

No. 19,865.

Patented April 6, 1858.



UNITED STATES PATENT OFFICE.

JNO. R. MOFFITT, OF ST. LOUIS, MISSOURI.

THRESHING-MACHINE.

Specification of Letters Patent No. 19,865, dated April 6, 1858.

To all whom it may concern:

Be it known that I, JOHN R. MOFFITT, of the city of St. Louis, State of Missouri, have invented new and useful Improvements in Threshing-Machines; and I hereby declare the following to be a full and exact description of the same, reference being had to the accompanying drawings, making part of this specification.

10 The present improvement consists in a peculiar construction and arrangement of the frame in which runs the multiplying gearing which imparts motion to the threshing cylinder; whereby the said gearing is maintained in position for effective action in any condition of the machine.

15 In the accompanying drawing Figure 1 is an elevation of the left side of the machine with a portion of the side plate removed to exhibit the cylinder and adjustable concave. Fig. 2 is a top view with the upper part of the elevator removed. Fig. 3 is an elevation of the right side. Fig. 4 is a detached perspective view of the metallic gearing-frame and the portion of the machine to which it is attached.

20 A, is the toothed cylinder receiving motion by means of multiplying gearing G, G, mounted in a metallic frame H, which rests on the side plate by arms *h, h*, and is attached to the machine by means of bolts *i, i, i*, which are at their front ends hinged to the respective side plates by bolts *c*, and at their rear ends are supported by screw bolts *d*, passing through projections *e*, on the concave plates and engaging in lugs *f*, on the side plates, or they may pass through the lugs *f*, and be confined by nuts.

35 The separating apparatus being similar to that described in my patents of Nov. 30th, 1852, and Dec. 1st, 1857, requires no specific description here.

40 The benefits of the described construction and arrangement of the metallic gearing-frame H, refer to a difficulty commonly

experienced from gearing becoming inoperative in consequence of the winding of the machine which its great weight renders impossible to avoid when set upon uneven ground. The arms *h, h*, resting upon the side plate in which the cylinder is journaled prevent the sinking of the frame and hold the gearing firmly in position with respect to the cylinder. The bolts must be so disposed that when the machine is strained out of form they will not be subjected to such stress as would result in loosening them or breaking the frame.

50 The following are the objects and advantages of the described method of adjusting the concave: It is generally necessary that the front end of the concave should vary but little in distance from the cylinder, in order that the grain may pass in from the feed board at equal speed. Experience proves the most advantageous position for the teeth on the concave to be under the center of the cylinder, and the distance of these teeth from the cylinder must be varied in accordance with the kinds and conditions of grain to be threshed. Thus with some varieties of grain and when it is dry, too great proximity of the teeth will inevitably result in breaking a portion of the grain, while under other circumstances the grain cannot be effectually threshed without setting the concave teeth nearer the cylinder or increasing their number at the expense of power.

I claim as new and of my invention herein.

The construction and arrangement of the metallic gearing-frame H, provided with arms *h, h*, and attached to the machine substantially as explained.

In testimony whereof, I hereunto set my hand to this specification.

J. R. MOFFITT.

Witnesses:

OCT. KNIGHT,
JOHNS HOLLINGSHEAD.