

No. 646,540.

Patented Apr. 3, 1900.

B. JÄCKLE.
THRESHING MACHINE.

(Application filed Jan. 5, 1899.)

(No Model.)

Fig. 1.

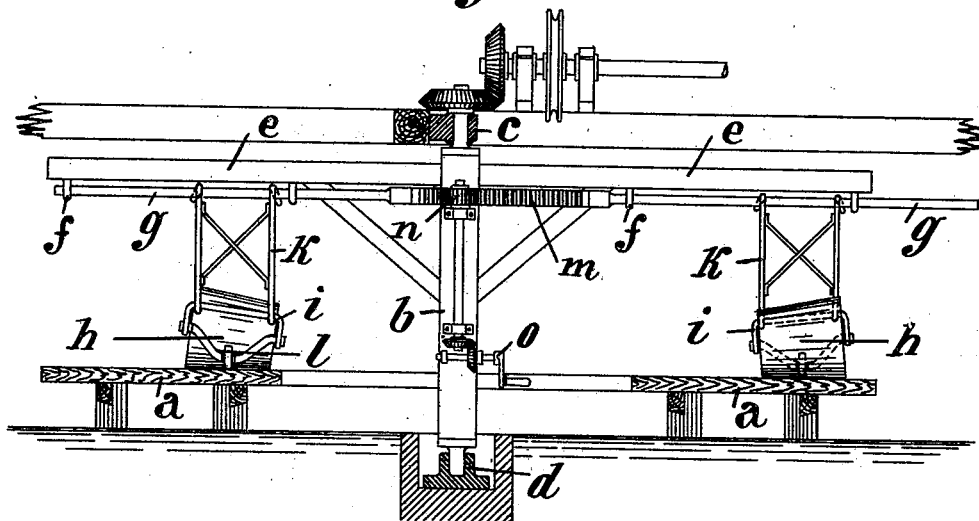
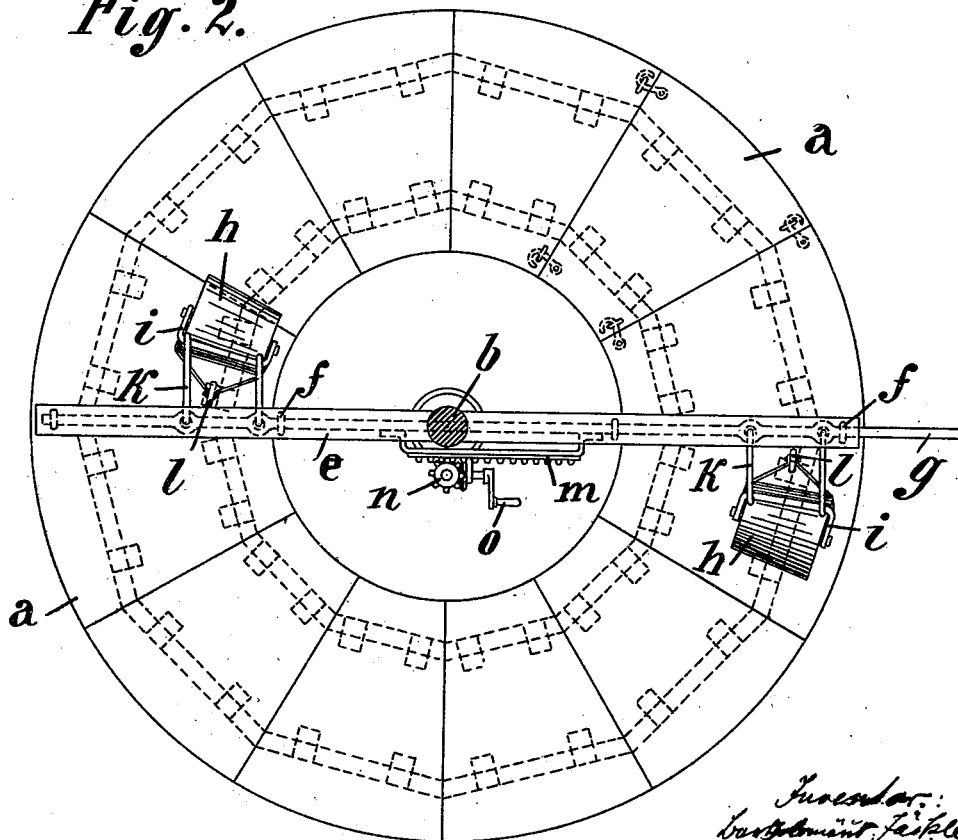


Fig. 2.



Witnesses. Christian Haig, Wilhelm Meyer.

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UNITED STATES PATENT OFFICE.

BARTHOLOMAÜS JÄCKLE, OF LOCHERHOF, GERMANY.

THRESHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 646,540, dated April 3, 1900.

Application filed January 5, 1899. Serial No. 701,292. (No model.)

To all whom it may concern:

Be it known that I, BARTHOLOMAÜS JÄCKLE, a citizen of the German Empire, residing at Locherhof, near Rottweil, in the Kingdom of Württemberg, Germany, have invented certain new and useful Improvements in Roller Threshing-Machines, of which the following is a specification.

My invention relates to a roller threshing-machine, the conical rollers or drums whereof revolve around a vertical central shaft in a circular track; and it consists in a device for adjusting the rollers during the operation with relation to their distance from the central shaft. By this device I obtain that the drums cover the whole width of the track and the working becomes very efficient, which was impossible with the previous arrangement of the drums, because the same always kept the same track.

My invention is illustrated in the accompanying drawings, of which—

Figure 1 is an elevation, and Fig. 2 a ground plan.

The construction is as follows: At the center of a circular roller-track *a*, constructed of truncated sectors, supported on beams and connected together by hooks and loops, Fig. 2, there is supported a vertical revolving shaft *b*, with a neck-bearing *c* at the top and a foot-bearing *d*. The driving of this shaft *b* can be effected by ropes and pulleys and by means of bevel-gearing, as shown in the drawings, or immediately by means of horse or other power, the track of which is placed either within the roller-track or preferably in the case of a threshing-machine constructed with more than one story underneath the same. To the upper part of the shaft *b* is secured a cross-beam *e*, and to the lower surface of said beam is attached the adjustable

rail *g*, the same being supported in loops or holders *f*. This rail *g* is provided with a toothed rack *m* and may be moved to and fro by a gear-wheel *n*, which meshes with said toothed rack *m* and is indirectly actuated by means of a crank *o*, secured to the shaft *b*. To this rail *g* are attached conical threshing-rollers *h*, preferably by means of draw-bars *k*, connected with one another by diagonal cross-pieces, which bars are secured to the journals *i* of the rollers *h*. The latter, being provided each with a safety-roller *l* and actuated by the shaft *b*, pass over the straw placed on the threshing-floor, and thereby effect the removal of the grain from the straw.

The operation of the adjusting mechanism is as follows: The crank *o* by means of two bevel-gears actuates the gear-wheel *n*. The latter moves the rack *m*, with which it is in mesh, and the rack moves the rail *g* and the rollers *h*.

Having now described my invention, what I claim as new is—

A roller threshing-machine, comprising a platform, a central vertical shaft, a cross-beam carried by said shaft, a rail *g* supported in loops or holders *f* by the cross-beam *e*, to which rail are attached the conical rollers *h*, a toothed rack *m*, secured to said rail, a gear-wheel *n*, in mesh with the rack *m*, and a crank *o* by means of which the gear-wheel *n* is actuated, substantially as, and for the purpose, set forth and specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

BARTHOL. JÄCKLE.

Witnesses:

CARL VIZZER,
OTTO LEYPOLD.