(No Model.)

L. NOLDEN & A. E. MAY.

FEEDER FOR ROLLER MILLS.

No. 326,447. **Patented Sept. 15, 1885.**

Fig: 1.

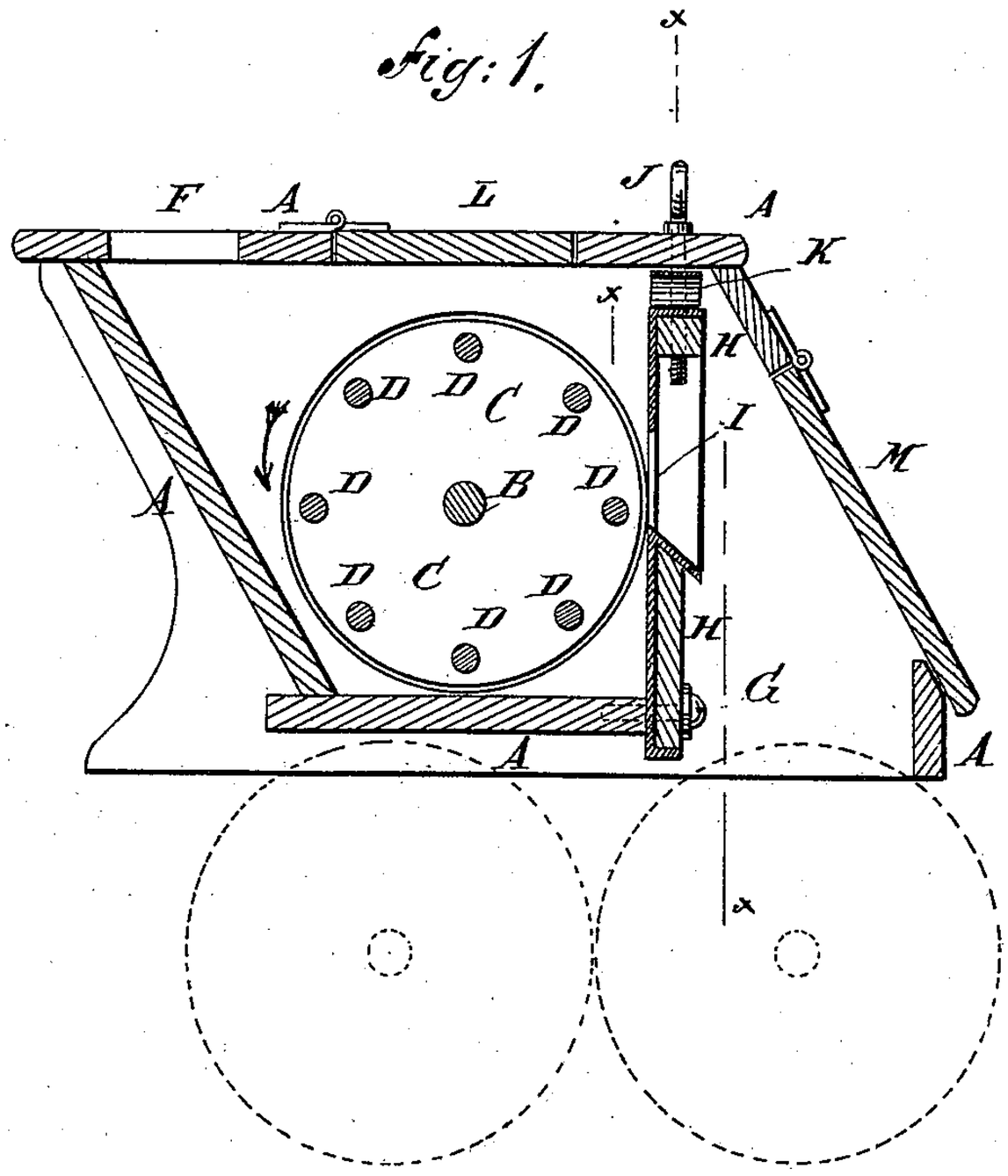
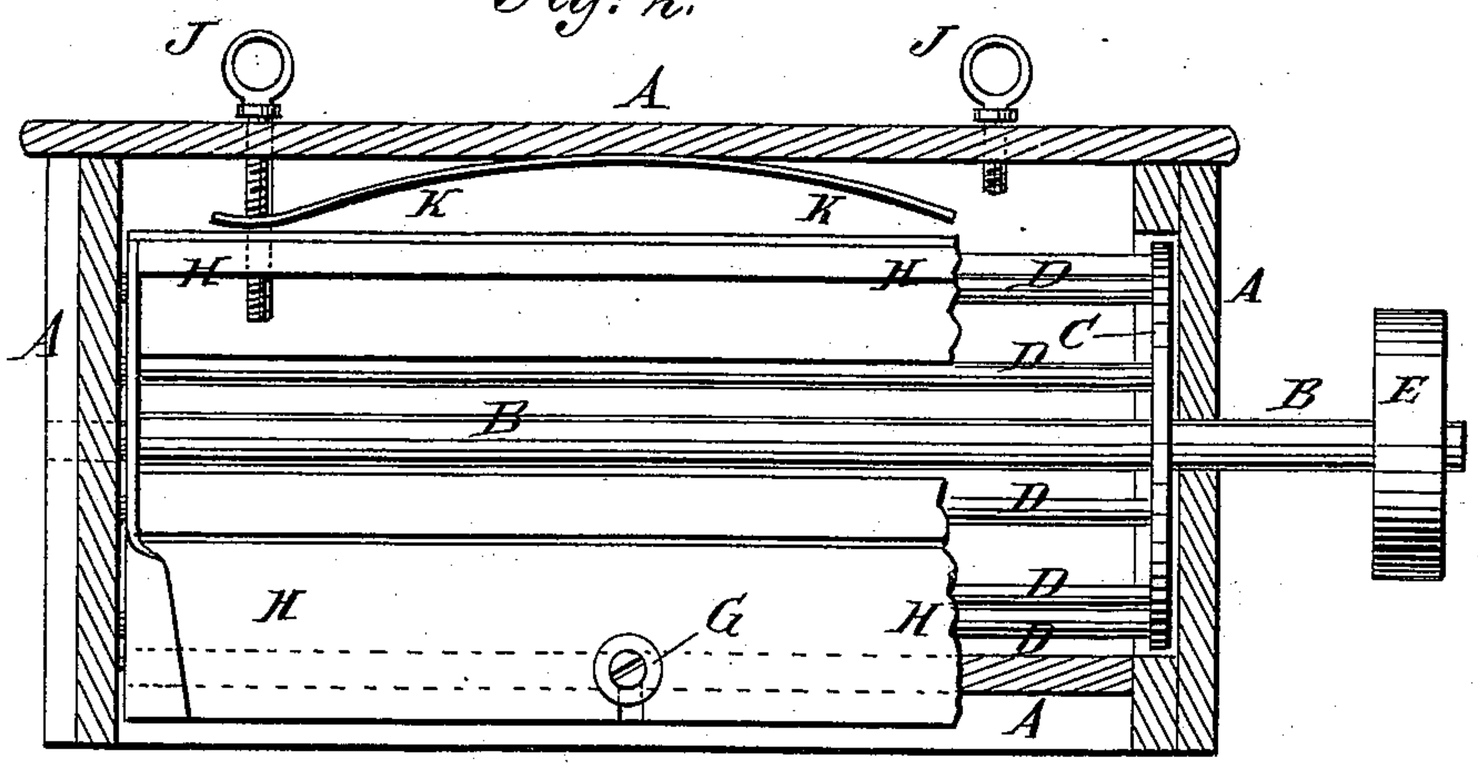


Fig: 2.



WITNESSES:

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LOUIS NOLDEN AND ALFRED E. MAY, OF BEARDSTOWN, ILLINOIS.

FEEDER FOR ROLLER-MILLS.

SPECIFICATION forming part of Letters Patent No. 326,447, dated September 15, 1885.

Application filed February 18, 1885. (No model.)

To all whom it may concern:

Be it known that we, LOUIS NOLDEN and ALFRED E. MAY, both of Beardstown, in the county of Cass and State of Illinois, have invented certain new and useful Improvements in Feeders for Roller-Mills, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a sectional end elevation of one of our improved feeders. Fig. 2 is a sectional front elevation of the same, taken through the broken line *x x x*, Fig. 1.

The object of this invention is to provide feeders for roller-mills constructed in such a manner that they will feed middlings and other soft materials to the rollers regularly and uniformly.

The invention relates to a feeder for roller-mills constructed with a case having an inclined rear side, a skeleton, rotary cylinder revolving within the said case, and an adjustable feed-plate, as will be hereinafter fully described and then claimed.

A represents the case of the feeder, which is made with vertical ends, an inclined rear side, and a horizontal top and bottom.

In bearings in the ends of the case A revolves a shaft, B, to which, at the inner sides of the said ends of the case, are attached disks C, five inches (more or less) in diameter. To the disks C, near their edges, are attached the ends of iron rods D, a quarter of an inch (more or less) in diameter, and about an inch apart.

One end of the shaft B projects, and to it is attached a pulley, E, to receive a driving-belt from any convenient part of the driving mechanism of the mill.

The material is introduced into the feeder through an opening, F, in the rear middle part of its top, falls upon the inclined rear side of the case A, and slides down the said inclined rear side of the said case to the feed-cylinder B C D.

The bottom of the case A terminates beneath the front of the feed-cylinder B C D, and to its forward edge is secured by a clamping-screw, G, the lower part of the feed-plate H, the said screw passing through a vertical slot in the lower part of the said feed-plate and screwing into the forward edge of the bottom of the case A.

In the middle part of the feed-plate H is formed the feed-opening I, through which the material is fed to the rollers, and which is made with a beveled or inclined lower edge.

The feed-plate H is raised by hand-screws J, passing down through the top of the case A, and screwing into the upper edge of the said feed-plate H. The feed-plate H is forced down, as the hand-screws J are turned, by a spring, K, interposed between the upper edge of the said feed-plate and the top of the case A, so that the said feed-plate can be adjusted as may be required by turning the hand-screw J in one or the other direction.

Access is had to the feed-cylinder B C D, when required, through a door, L, in the top of the case A; and access can be had to the feed-plate H when required through a door, M, in the inclined front of the case A.

With this construction the material will be fed to the rollers regularly and in uniform quantities, and the quantity fed to the said rolls can be increased or lessened by adjusting the feed-plate H.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The feeder for roller-mills comprising the case having the inclined rear side, a skeleton rotary cylinder, and the adjustable spring-pressed feed-plate having a feed-opening, substantially as and for the purpose set forth.

2. In a feeder for roller-mills, the combination, with the case A and the rotary skeleton feed-cylinder B C D, of the feed-plate H, having feed-opening I, the hand-screws J, and the spring K, substantially as herein shown and described, whereby the quantity of material fed to the rollers can be readily regulated, as set forth.

LOUIS NOLDEN.
ALFRED E. MAY.

Witnesses:
JOHN SCHULTZ,
J. C. BANJAN.