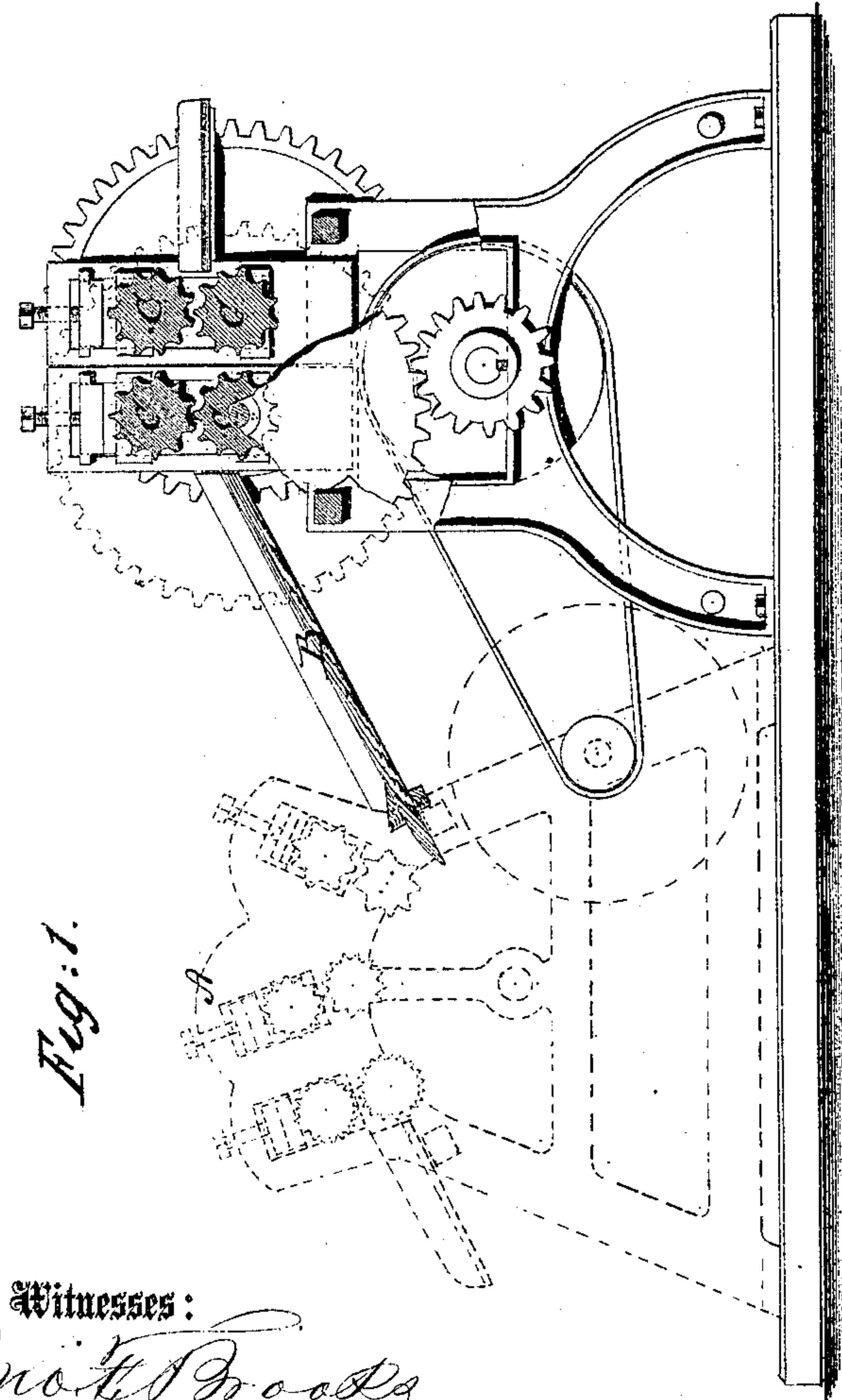
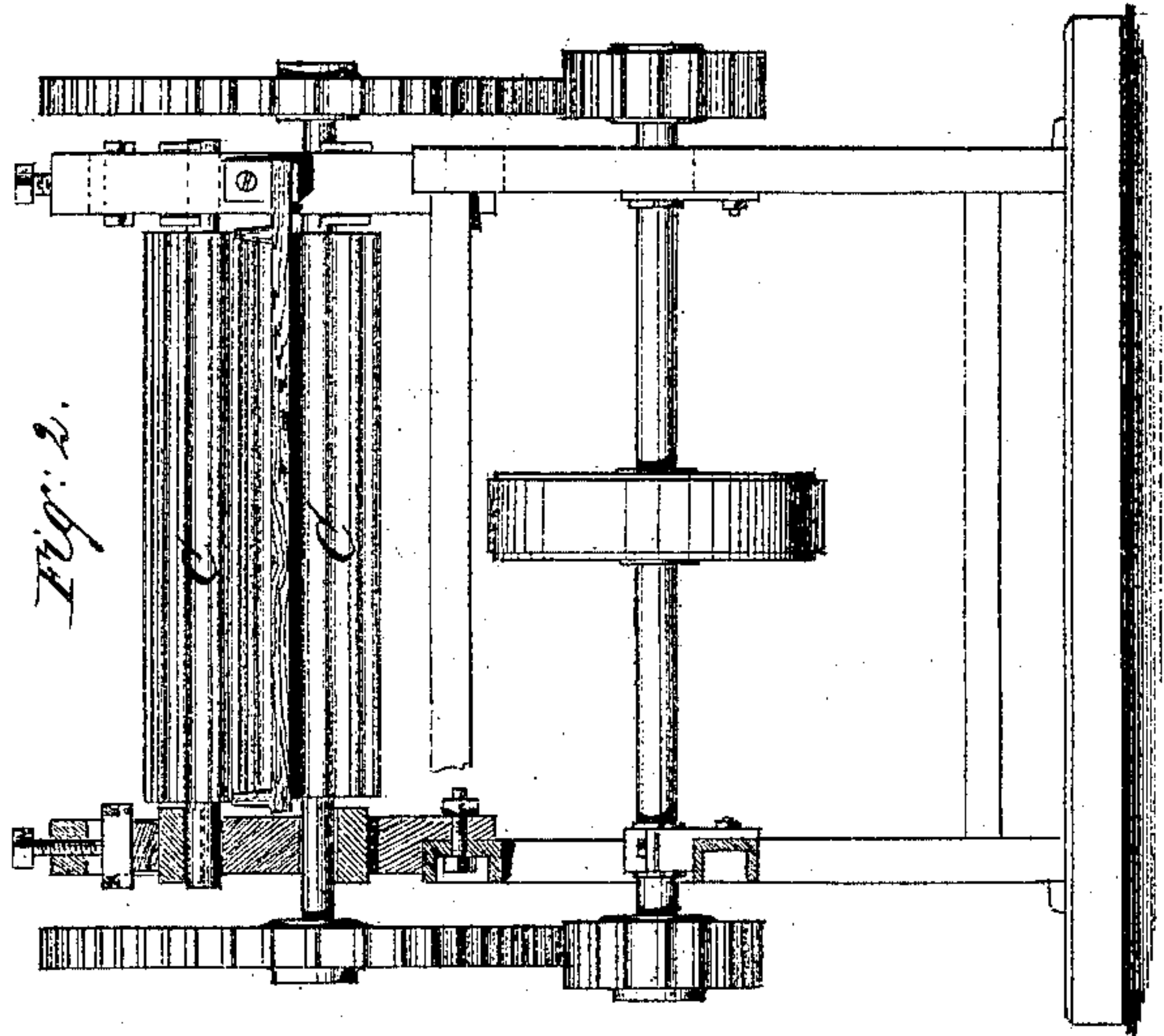


J. Boyce,

Flax Brake.

No. 94,706.

Patented Sept. 14, 1869.



Witnesses:

John P. Brooks
David G. Allen

Inventor:

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United States Patent Office.

JAMES BOYCE, OF WOOSTER, OHIO.

Letters Patent No. 94,706, dated September 14, 1869.

IMPROVEMENT IN FLAX-BRAKES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, JAMES BOYCE, of Wooster, in the county of Wayne, and State of Ohio, have invented a new and useful Improvement in Flax-Brakes; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The object of this invention is to provide, in combination with the "Sanford and Mallory" flax-brake, a feeding-attachment, whereby crossed and tangled stalks may be, in a great measure, straightened and arranged in the proper order for feeding into the said brake in the required lengthwise position.

The invention comprises the combination, with the said machine, of a set of fluted feeding-rollers, moving at a slower rate than the rollers of the said brake, and a broad downward-inclining table, whereon the intermittent motion imparted to the flax moving lengthwise and properly, and with which the crossed and tangled stalks are mixed, by the back and forward movement of rollers of the brake, has the effect to straighten out and arrange the said crossed stalks, as hereinafter more fully specified.

Figure 1 represents a side elevation of a "Sanford and Mallory" brake in dotted lines, and my improved attachment in full lines, and partly sectioned; and

Figure 2 represents a transverse section of my improved feeding-attachment.

Similar letters of reference indicate corresponding parts.

The said "Sanford and Mallory" brake consists of three (more or less) pairs of fluted breaking-rollers, arranged horizontally in a circular line around and above a driving-wheel common to all the said pairs, and having an intermittent forward and back movement, the back movement being materially less than the forward movement, so that the straw fed to it is carried through the machine.

The dotted lines at A, fig. 1, represent so much of

this machine as it is necessary to show in this case, my improvement being only the attachment thereto of the downward-inclining feeding-table B and the feeding-rollers C, consisting of two or more pairs of fluted rollers, arranged and operated in the usual way, but moving at a considerably lower rate of speed than the resulting forward movement of the rollers of the breaker.

The straw is now commonly fed to the breakers by hand, and is necessarily more or less crossed and tangled, which is very objectionable, as, before it can be scutched and cleaned, it must be arranged parallel together by hand, which is a slow and tedious process.

To remove this difficulty as much as possible, I have had recourse to the attachment of the said feeding-rollers and inclined table, which I find accomplishes the object, in a great measure, in this way:

The straw feeding through the rollers C, being held back by them against the intermittent pulling motion of the breaker-rollers while on the inclined table, and subject to the action of gravity, which prevents it from going back at the backward motion of the rollers, will have a forward impetus imparted to all those straws not lying straight, calculated to bring them into line with those moving straightly, to a great extent.

The same result, but in a less degree, may be obtained with a horizontal table; but owing to the better results when arranged in this way, I propose to arrange them in inclines.

Having thus described my invention,

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

The combination, with the breaking-rollers, having an intermittent forward and back movement, of a feeding-table, inclining downward toward them, and feeding-rollers at the higher end of the said table, substantially as specified.

JAS. BOYCE.

Witnesses:

THOMAS HENRY,
JAMES COSGROVE.