

(No Model.)

2 Sheets—Sheet 1.

F. E. R. MALKE.

GRAIN ADJUSTER FOR BINDERS.

No. 384,702.

Patented June 19, 1888.

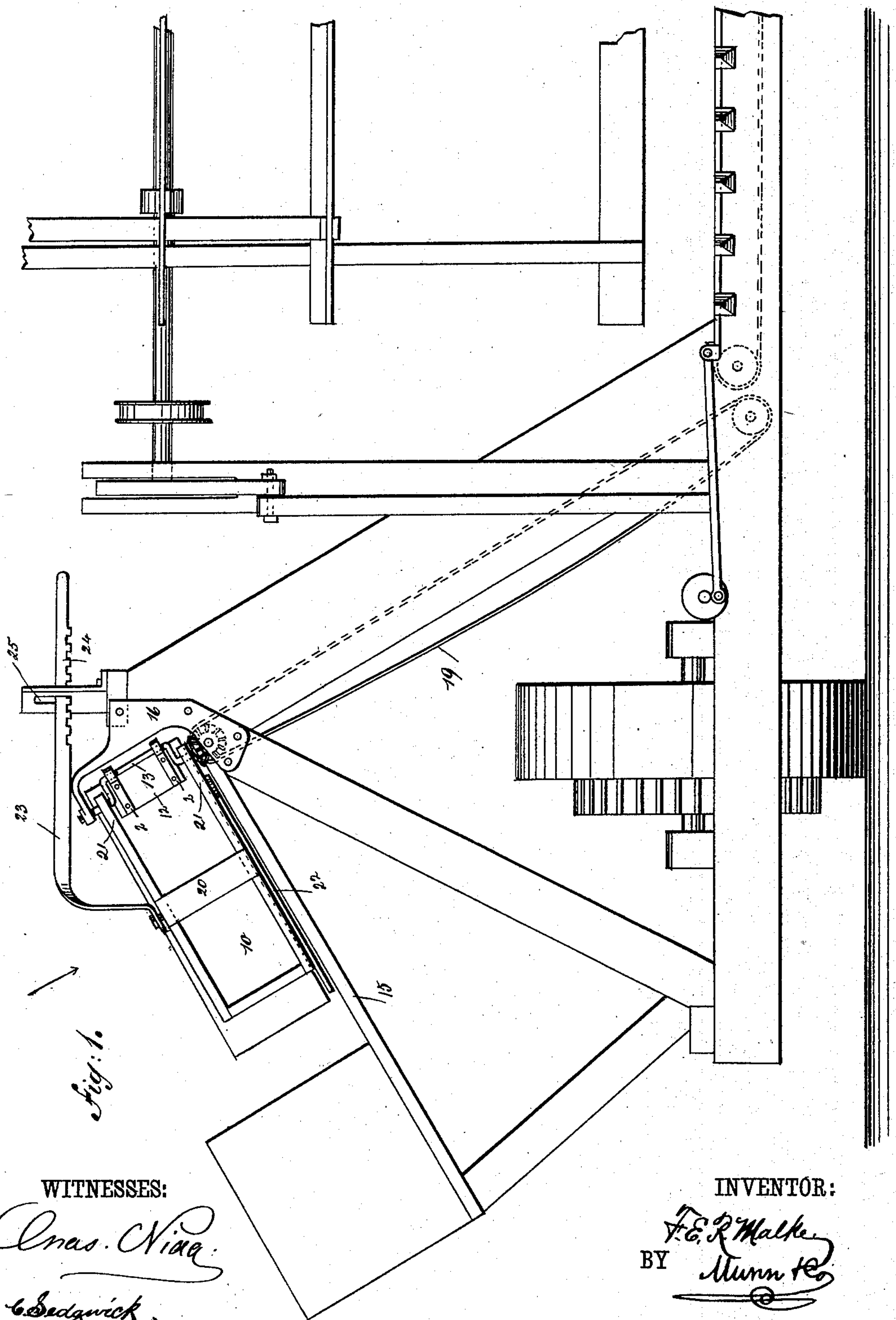


Fig. 1.

WITNESSES:

*Chas. V. A. A.*  
*C. Sedgwick*

INVENTOR:

*F. E. R. Malke*  
BY *Munn & Co.*  
ATTORNEYS.

(No Model.)

2 Sheets—Sheet 2.

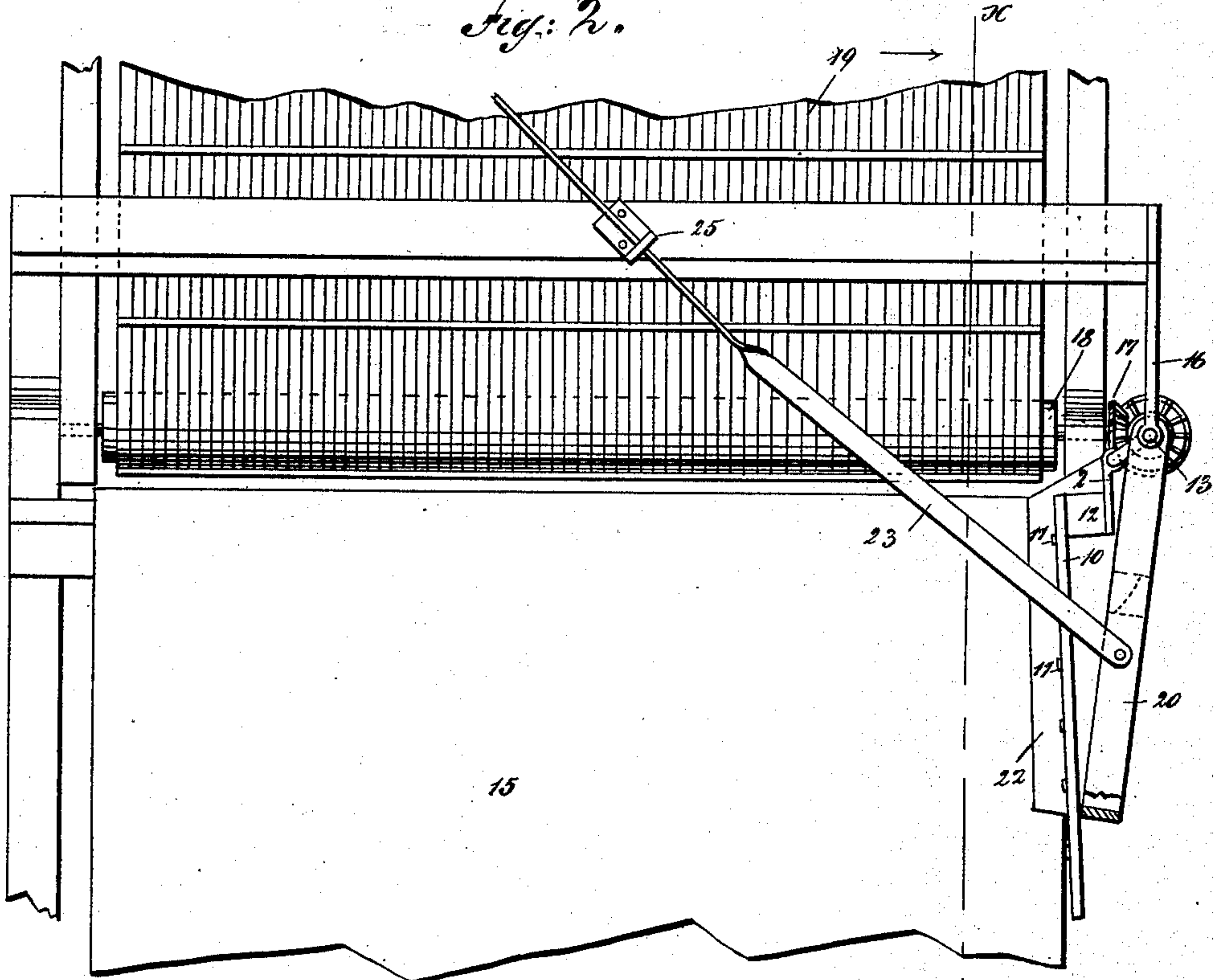
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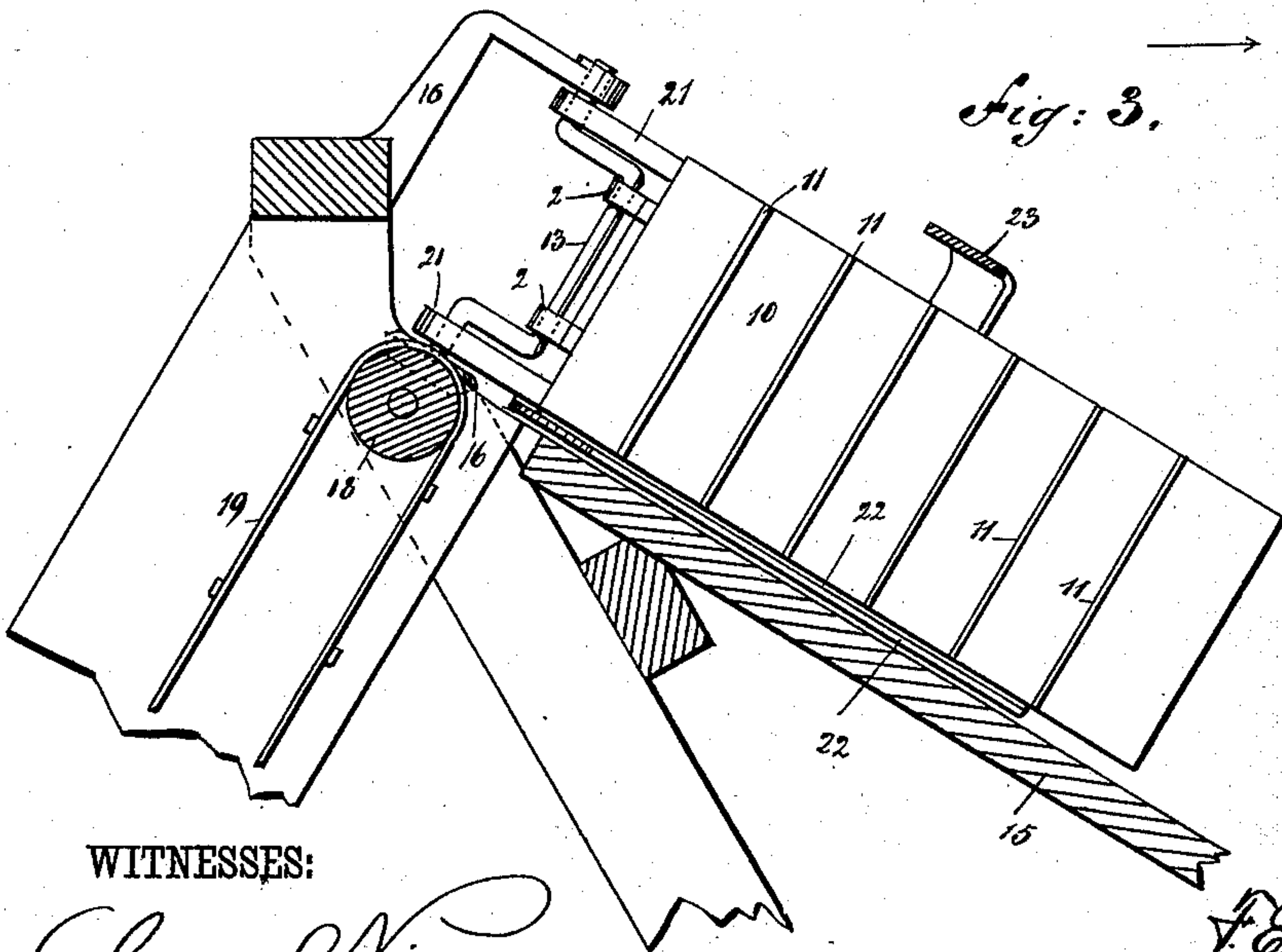
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*Fig: 2.*



*Fig: 3.*



WITNESSES:

*Chas. Nida*  
*C. Sedgwick*

INVENTOR:

*F. E. R. Malke*  
BY *Mann & Co*

ATTORNEYS.



# UNITED STATES PATENT OFFICE.

FREDERICH E. R. MALKE, OF CHRISNEY, INDIANA.

## GRAIN-ADJUSTER FOR BINDERS.

SPECIFICATION forming part of Letters Patent No. 384,702, dated June 19, 1888.

Application filed January 9, 1888. Serial No. 260,150. (No model.)

*To all whom it may concern:*

Be it known that I, FREDERICH E. R. MALKE, of Chrisney, in the county of Spencer and State of Indiana, have invented new and Improved Grain-Adjusters for Binders, of which the following is a full, clear, and exact description.

This invention relates to that class of appliances employed to even up grain delivered to the binding-table of a harvesting-machine; and it consists in the construction and arrangement of parts, as will be hereinafter fully described and claimed.

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

Figure 1 is a front view of a self-binding harvester, representing the same as it appears when provided with my improved form of adjuster. Fig. 2 is a plan view of part of the binder-table, taken in the direction of the arrow shown in Fig. 1, a portion only of the elevating-belt being represented in this view; and Fig. 3 is a sectional view taken on line *x x* of Fig. 2.

The adjuster forming the subject-matter of this application consists of a board, 10, to the rear face of which there is secured a number of cleats, 11. To the front or outer face of this board 10 there is secured at its upper end a block, 12, which is in turn connected by metallic straps 2 to a crank-shaft, 13, that is mounted in proper bearings at the upper forward corner of the binding-table 15. On the lower end of the crank-shaft 13 there is a bevel-gear, 16, which is engaged by a corresponding gear, 17, that is carried by the upper roller, 18, of the elevator-belt 19.

Just outside of the board 10 I mount a frame, 20, which is connected with the crank-shaft 13 by means of arms 21, said arms being arranged at either end of the crank portion of the shaft. This frame 20 carries a base-plate, 22, which extends over the upper face of the table 15 and serves as a partial support for the board

10, the position of the frame, and consequently of the board, however, being regulated by means of a rod, 23, that is formed with a series of teeth, 24, arranged to engage a stop, 25, carried by the main frame of the machine.

Such being the general construction of my improved form of adjuster, the operation is as follows: Grain from the cutter-bar falls upon the horizontal belt, and is delivered thereby to the elevator-belt 19, is then carried upward and onto the binder-table 15, and as the grain passes from the elevator-belt to the table 15 the butt-board 10 will strike against the butt-ends of the straw and even them up, as will be readily understood. The grain passing by the butt-board 10 will prevent it from swinging inward, and the frame against which the outer face of the board bears will prevent its accidental movement outwardly. When the butt-board is in the position shown in Fig. 2, its outer end fulcrums on the outer end of the relatively-fixed frame 20. It will be understood that the frame 20 is entirely separate from the butt-board, which slides against the frame, but not within it. The butts will be evened or adjusted every time the crank throws the board 10 to the position shown in Fig. 2.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination, with the frame, the receiving-table 15, the bracket 16, and the crank-shaft 13, journaled in the said bracket, of the butt-board 10, having a block, 12, on the outer side of its inner end loosely connected with the crank of the shaft 13, the frame 20, having arms 21, pivoting on the ends of the shaft 13 beyond its crank and against the inner face of which the board 10 slides, the adjusting-rod 23, and the plate 22, projecting from the lower edge of the frame 20 inwardly under the lower edge of the board 10, substantially as set forth.

FREDERICH E. R. MALKE.

Witnesses:

W. D. HENDERSON,  
GEO. A. SMITH.