

No. 746,412.

PATENTED DEC. 8, 1903.

W. UMBECK.
BINDER ATTACHMENT.
APPLICATION FILED JAN. 29, 1903.

NO MODEL.

Fig. 1.

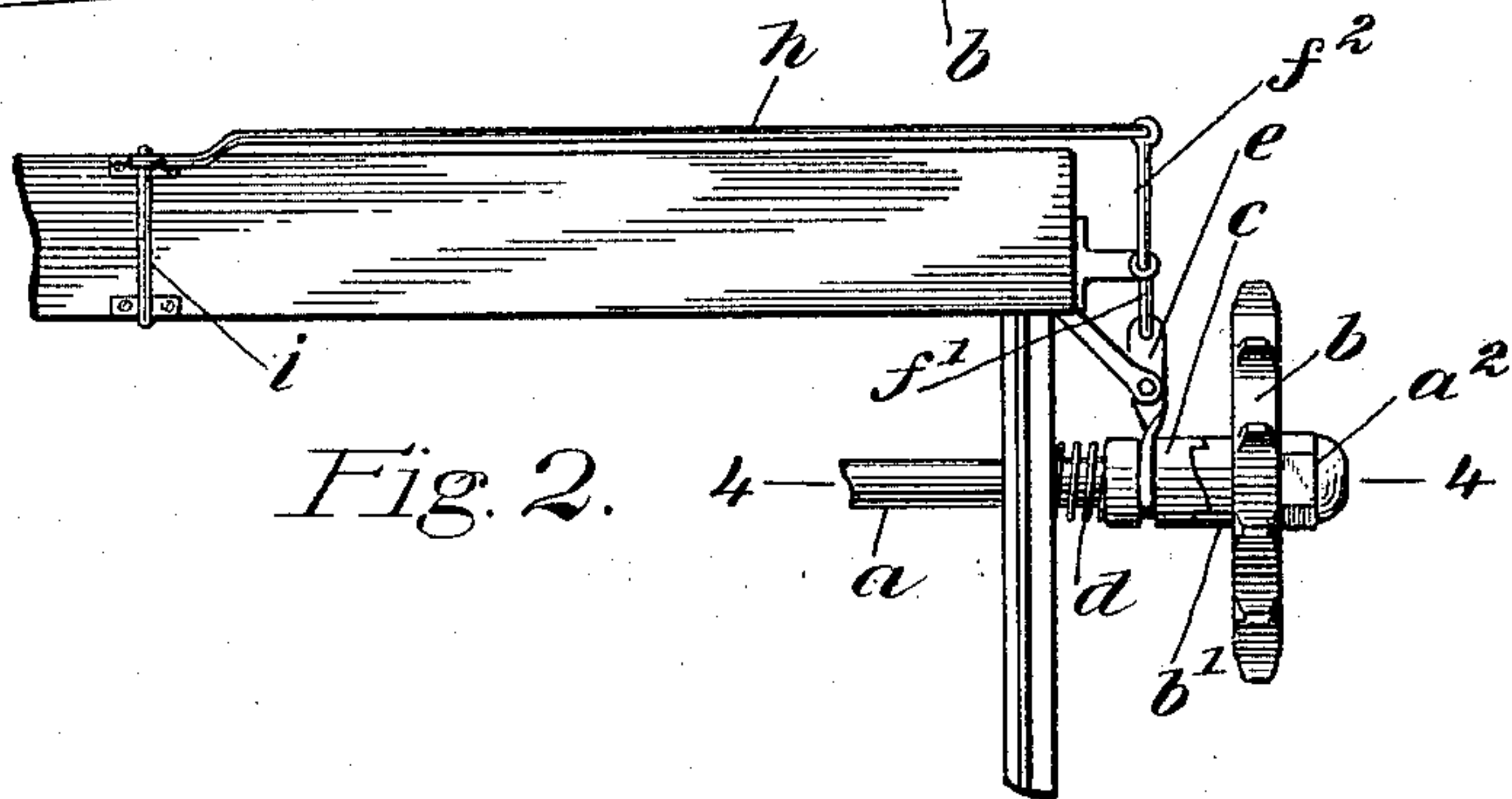
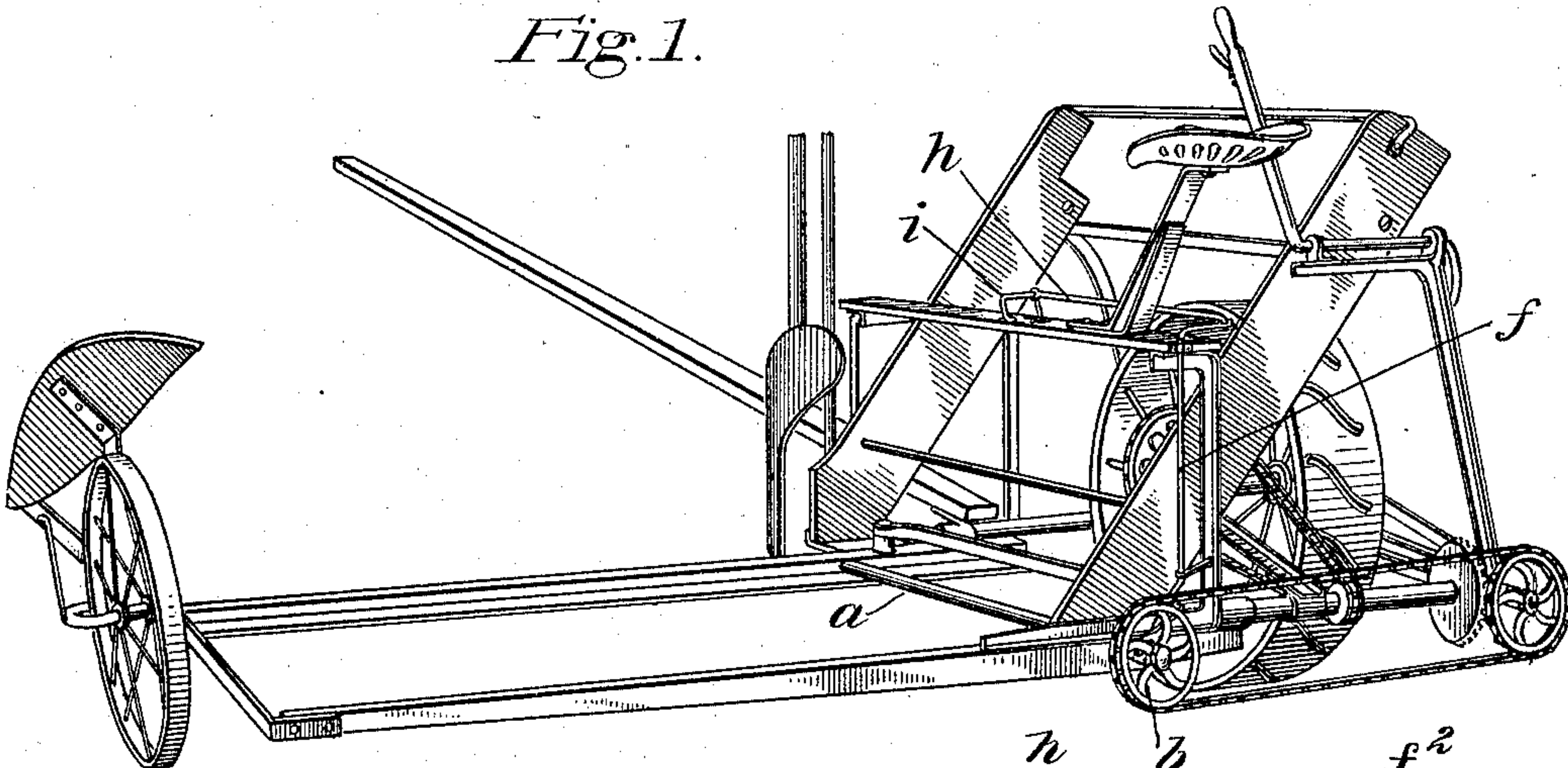


Fig. 2.

Fig. 3.

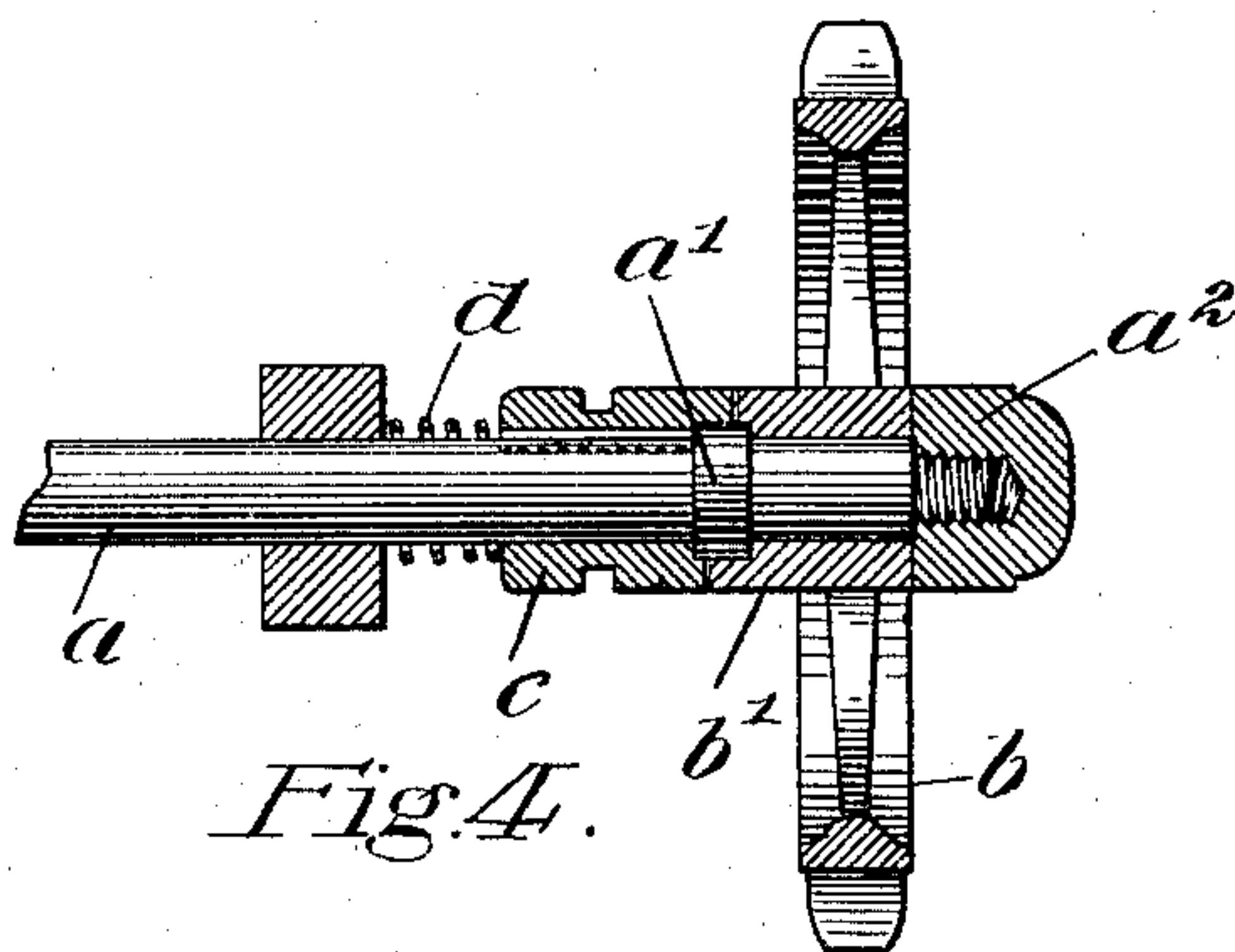
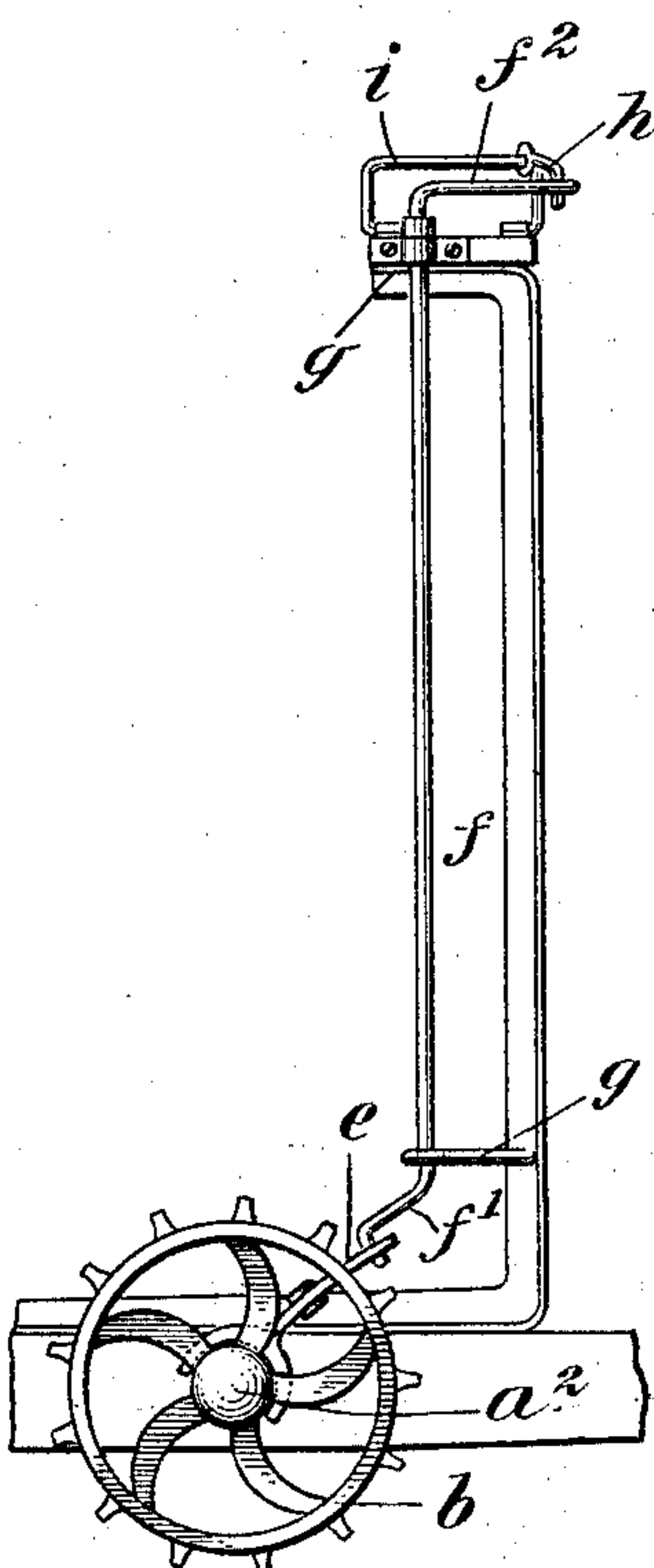


Fig. 4.

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BINDER ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 746,412, dated December 8, 1903.

Application filed January 29, 1903. Serial No. 141,026. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM UMBECK, a citizen of the United States, and a resident of Cape Girardeau, in the county of Cape Girardeau and State of Missouri, have invented a new and Improved Binder Attachment, of which the following is a full, clear, and exact description.

It is commonly found in the operation of self-binders for grain that the thin grain falls on the platform-canvas in a tangled condition and stops at the elevator. My invention seeks to overcome this objection; and it consists in certain peculiar means for permitting the movement of the platform to be stopped at will, thus allowing the grain to pile up on the platform-canvas sufficiently to force it through the binder.

This specification is an exact description of one example of my invention, while the claims define the actual scope thereof.

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

Figure 1 is a perspective view of a self-binding harvester-frame, showing my invention applied thereto. Fig. 2 is a fragmentary plan view of the attachment. Fig. 3 is a side elevation thereof, and Fig. 4 is a section on the line 4 4 of Fig. 2.

a indicates the spindle of the inner roller of the platform-canvas, and b indicates the sprocket-wheel by which this roller is usually driven. As shown best in Fig. 4, a collar a' is formed on the shaft a , and between this collar and a pocket-nut a^2 the sprocket-wheel b is loosely mounted. The hub b' of the sprocket-wheel has clutch-teeth formed thereon, as best shown in Fig. 2, and these clutch-teeth coact with corresponding teeth on a clutch-collar c , which is splined on the shaft a and pressed normally into engagement with the hub b' of the sprocket-wheel by means of an expansive spring d acting between the collar c and a part of the binder-frame, as shown. To the said collar c is connected a forked lever e , and engaged with this lever is the crank f' at the lower end of a crank-shaft f , mounted vertically in suitable bearings mounted on the binder-frame, as shown. The upper end of the shaft f has a second crank f^2 , and this

is connected to a rod h , which extends along the seat-board of the binder-frame and is connected with a swinging treadle or foot-piece i , mounted on the seat-board in position to be engaged by the foot of the driver.

The spring d presses the collar c normally into active position, and normally the platform-canvas is driven in the usual manner. When, however, the thin short grain is reached and the operation of the binder becomes irregular and uncertain, owing to the presence of this grain, the operator should press the foot-piece i , thus throwing back the collar c and rendering the wheel b loose on the shaft or spindle a . This done, the movement of the platform-canvas is stopped until sufficient grain accumulates thereon to enable it to pass properly through the binder, and then by releasing the foot-piece i the spring d will automatically throw the collar c back into place, whereupon the operation of the platform-canvas will be resumed.

Various changes in the form, proportions, and minor details of my invention may be resorted to at will without departing from the spirit and scope thereof. Hence I consider myself entitled to all such variations as may lie within the intent of my claims.

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

1. In a self-binding harvester, the combination with a driving-roller for the platform-canvas, of means for imparting a driving movement thereto, a clutch for throwing the said roller into and out of connection with the driving means, a rock-shaft in connection with the clutch to operate the same, said rock-shaft extending upward to the seat-board of the binder and having a crank at its upper end, a rod in connection with the crank and extending forward over the seat-board, and a foot-piece mounted to swing on the seat-board and connected with the rod.

2. In a self-binding harvester, the combination with the roller for driving the platform-canvas, of a drive-gear loose thereon, a member having splined connection with the driving-roller and capable of connection with said gear, a lever in connection with the said member to operate the same, a rock-shaft having a cranked end in connection with the

lever, the rock-shaft extending upward to the seat-board of the binder and having a crank at its upper end, a rod in connection with the crank and extending forward over
5 the seat-board, and a swinging foot-piece mounted on the seat-board adjacent to the driver's seat and connected with the rod.

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

WILLIAM UMBECK.

Witnesses:

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FRED. GOYERT.