

J. W. LATIMER.
HARVESTER.

Patented Aug. 6, 1889.

Fig. 4.

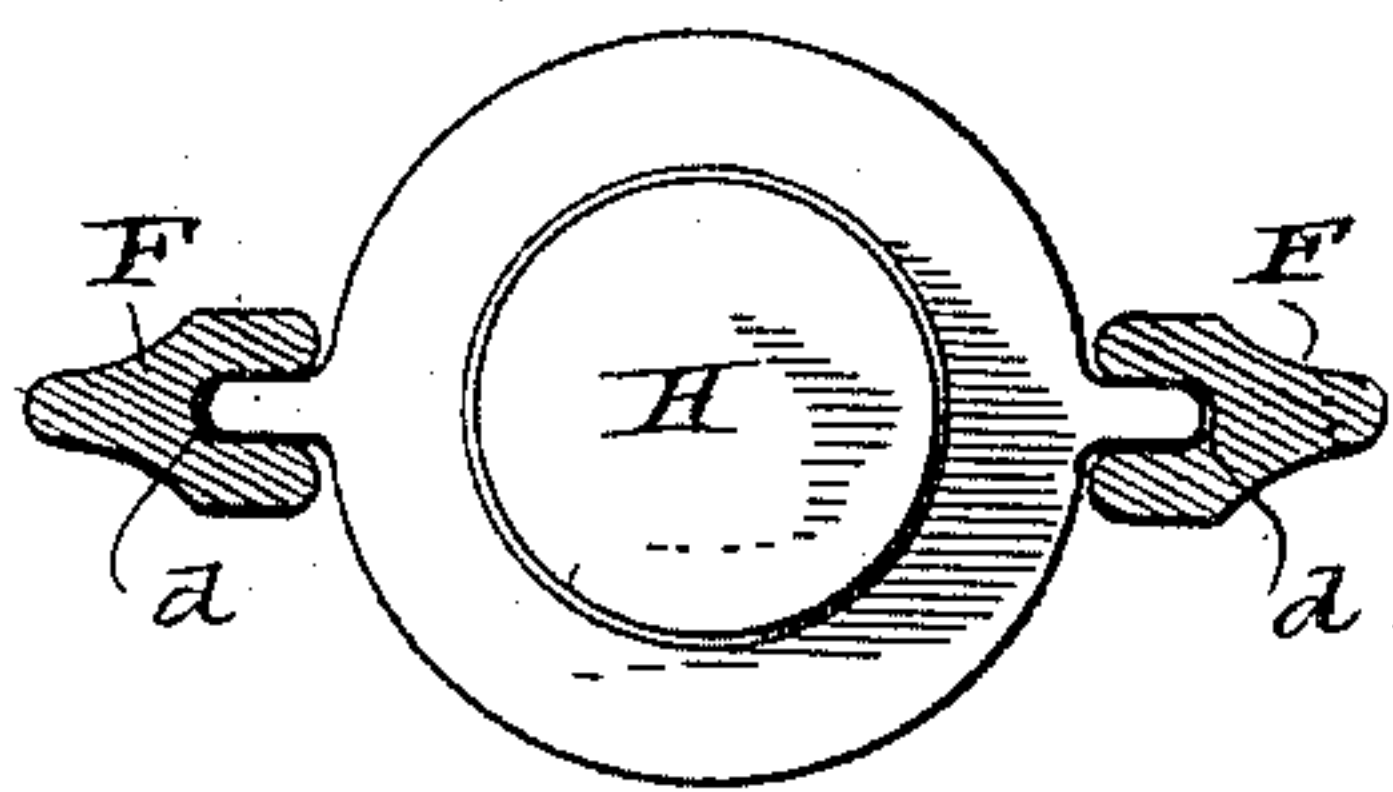


Fig. 1.

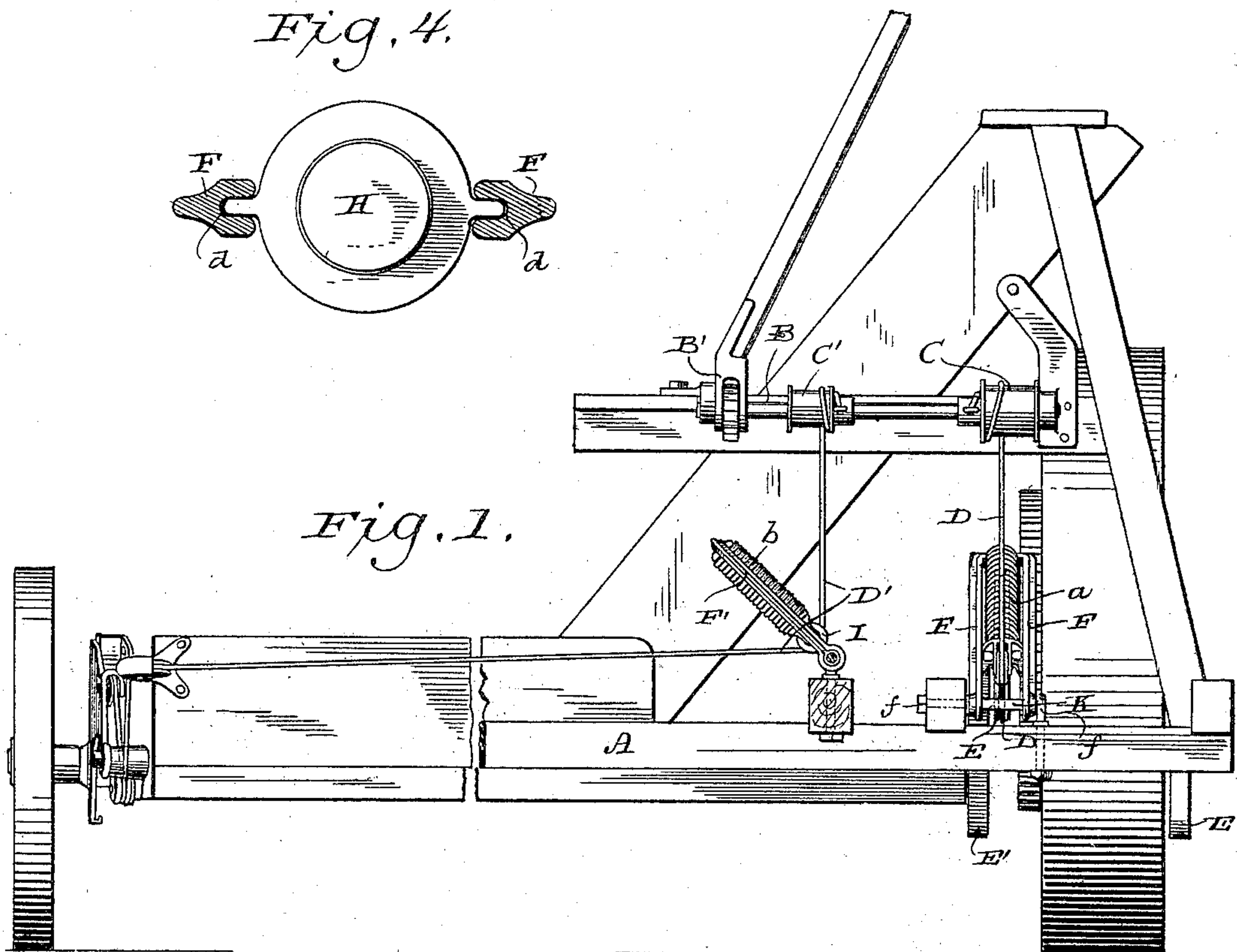


Fig. 2.

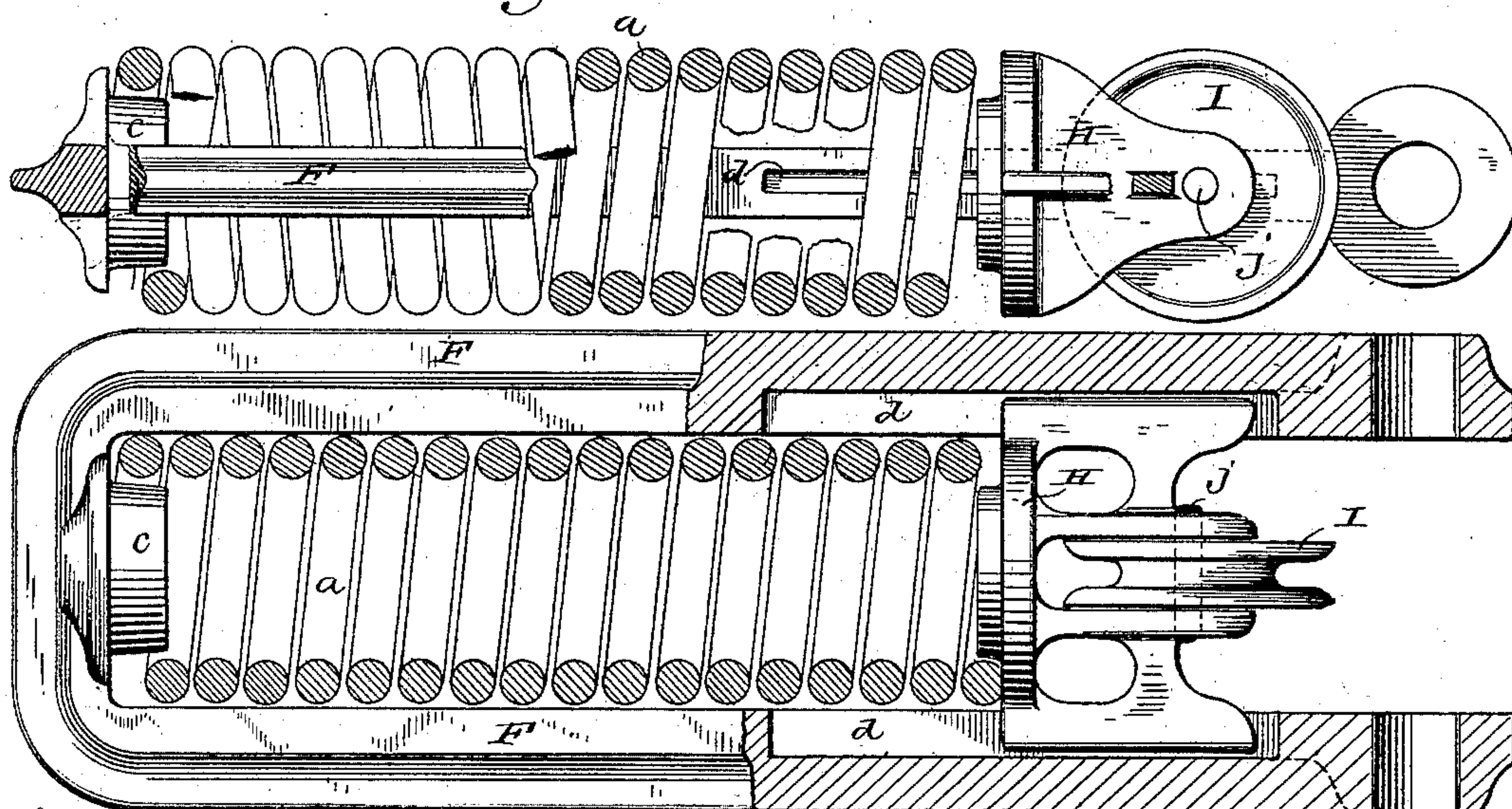


Fig. 3.

Witnesses
Geo. W. Young.
William Klug

Inventor
John W. Latimer
By Thos Van derwood
Attorneys

UNITED STATES PATENT OFFICE.

JOHN W. LATIMER, OF MILWAUKEE, WISCONSIN, ASSIGNOR TO THE
MILWAUKEE HARVESTER COMPANY, OF SAME PLACE.

HARVESTER.

SPECIFICATION forming part of Letters Patent No. 408,244, dated August 6, 1889.

Application filed March 23, 1889. Serial No. 304,497. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. LATIMER, of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Harvesters; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to harvesters, and will be fully described hereinafter.

In the drawings, Figure 1 is a rear view of a harvester embodying my invention. Figs. 2 and 3 are broken longitudinal sections of springs and their keepers forming part of my invention, and Fig. 4 is a cross-section of the same.

My invention has for its object to make a yielding connection between the harvester-frame and its carrying-wheels, and it applies particularly to harvesters in which the stubble end of the frame is raised by turning the main-wheel axle so as to cause pinions that are fixed on said axle to ride up or down in racks that are secured to the harvester-frame on each side of the main wheel.

Referring to the drawings, A, Fig. 1, is the lower rear beam of the harvester; B, the usual lifting-shaft, having sheaves C C' for the main-wheel and grain-wheel cables D and D', respectively. The cable D leads from sheave C to a sheave E, that is fixed on the axle of the main wheel, and by it the axle is turned to cause pinions (not shown) that are fixed on the ends of the axle to ride in racks in standards E' on the harvester-frame, and thus lift the harvester.

The frame is virtually hung to the carrying-wheels by cables D D', and to make the connection yielding I interpose a spring *a* between the sheave C and the sheave E and a spring *b* between the sheave C' and the lifting mechanism at the grain-wheel. The spring *a* is arranged in a keeper F and spring *b* in a keeper F'. These keepers are of the same form—that is, of general U shape—and each has a centering-lug *c* on the inner surface of its closed end for one end of the spring con-

tained by said keeper, and grooves *d* on the inner faces of its arms, near the open end, to receive the wings of a follower H, that confines the spring in the keeper. This follower has a bifurcated base, and a sheave I is mounted on an axle *j*, that extends from one lug to the other of the fork. Keeper F is hinged to the harvester-frame by a bolt K, which passes through the ends of its arms, and has its bearings at *f f* on the harvester-frame, and the cable D is passed from sheave C down under sheave I and up under sheave E on the axle of the main wheel. Likewise cable D' is passed under sheave I of spring *b* to the lifting mechanism at the grain-wheel.

The lifting-shaft B is provided with the usual ratchet-lever B' and its connections for revolving and locking it. It will be observed that as springs *a* and *b* are interposed between the shaft B and wheels the weight of the harvester will be supported by compressing the springs, and hence take up the shock resulting from travel over uneven ground.

My device is very simple as well as durable, and may be readily applied to harvesters now in use.

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

The combination, in a harvester, of the main wheel and its axle and sheave, a keeper hinged to the harvester-frame, a spring confined in the keeper, and a follower confining the spring therein, a sheave carried by the follower, and a lifting-shaft and cable, the latter extending from the lifting-shaft under the sheave of the follower and connected at its lower end to the periphery of the sheave on the main-wheel axle.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

JOHN W. LATIMER.

Witnesses:

WILLIAM KLUG,
S. S. STOUT.