

Grain-Binders.

No. 134,089.

Patented Dec. 17, 1872.

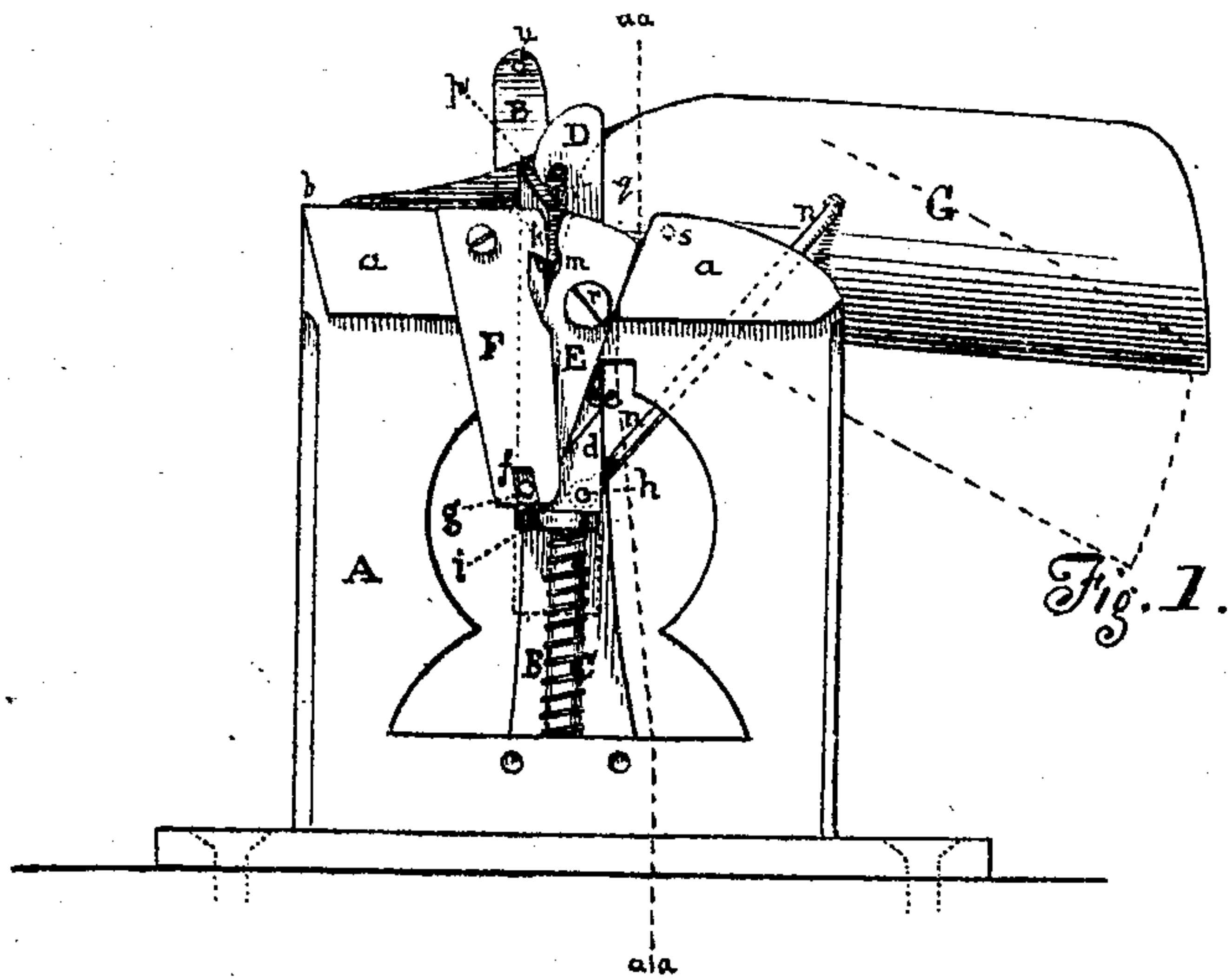


Fig. 1.

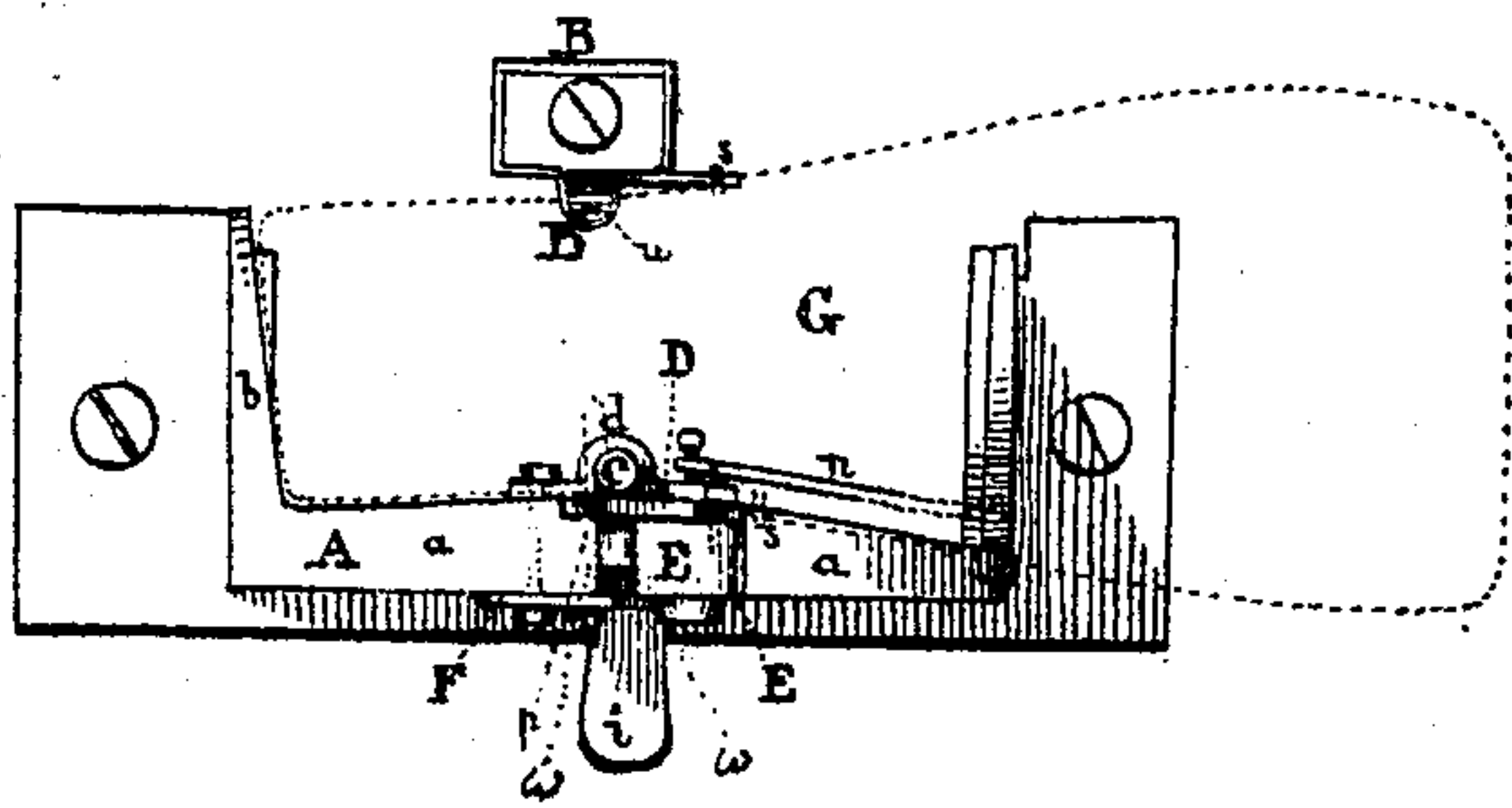


Fig. 2.

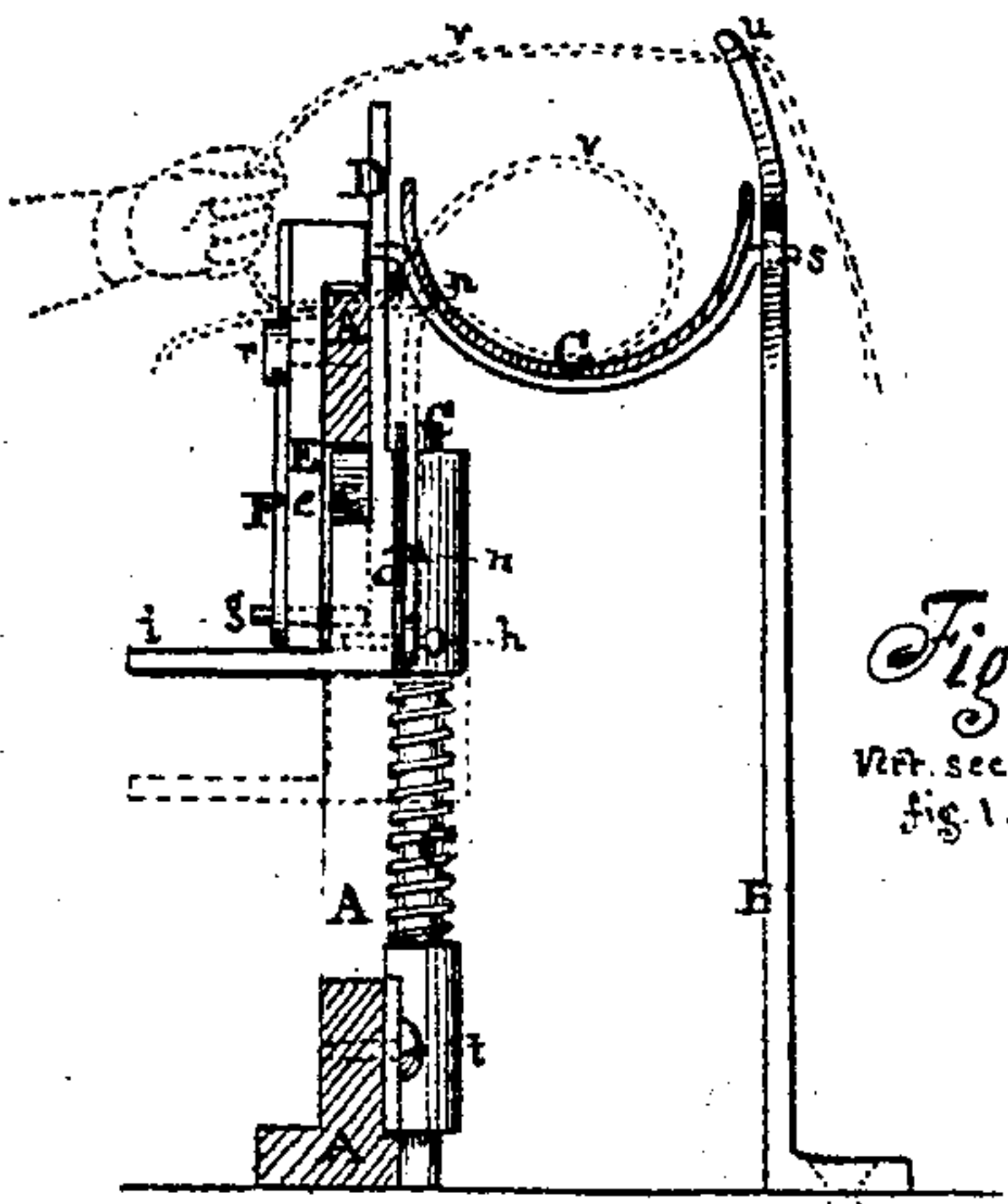


Fig. 3.

Vert. sec. thro' aa, aa.
fig. 1.

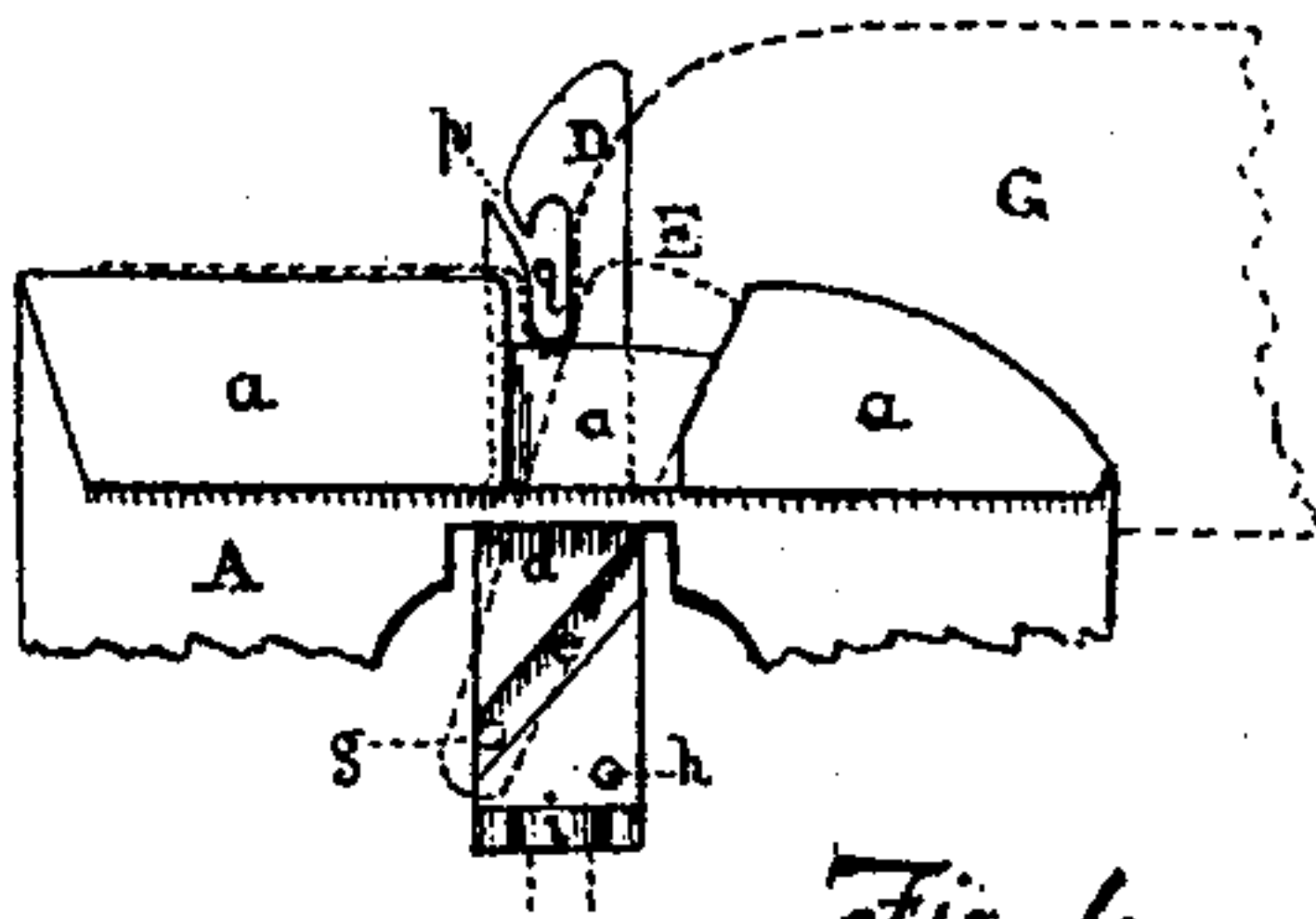


Fig. 4.

Witnesses

Edw. Norton

James Morris.

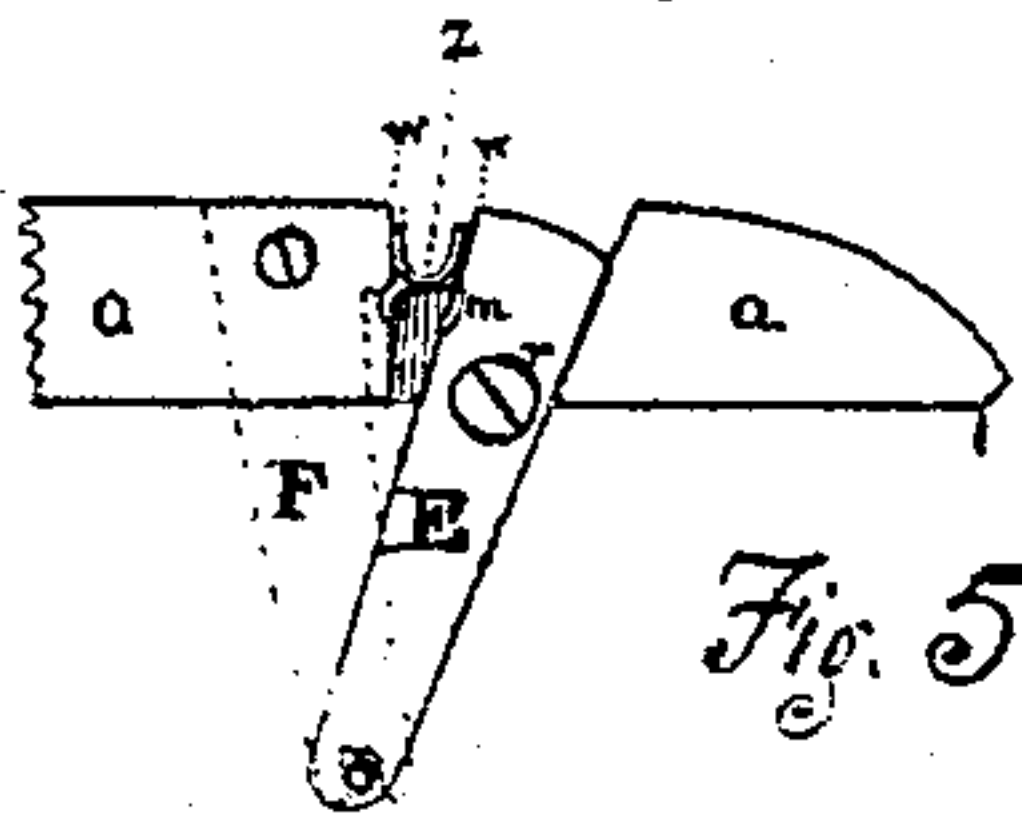


Fig. 5.

Inventor
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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN GRAIN-BINDERS.

Specification forming part of Letters Patent No. 134,089, dated December 17, 1872.

To all whom it may concern:

Be it known that I, JOHN H. MORSE, of Peoria, in the county of Peoria and State of Illinois, have invented certain Improvements in Grain-Binding Machines, of which the following is a specification:

Description of the Accompanying Drawing.

Figure 1, elevation of binder; Fig. 2, plan, sheaf-trough G removed; Fig. 3, vertical cross-section through *a a a a*, Fig. 1; Fig. 4, showing vertical sliding hook D, parts F E removed; Fig. 5, diagram showing corrugated jaws *w w* with clamp *z* inserted; Fig. 6, clamp *z*.

General Description.

A is the frame of the binder, which may be secured at its base to the platform of a reaper. B is an upright support for one side of the sheaf-trough G, with a hole or eye, *u*, at its top, through which passes the cord *v*. C is the guide-rod for the foot-piece *i* and tightening-hook D. Around this rod is wound a spiral spring, acting on the foot-piece *i*, forcing it up to position after the foot has pressed it down in the act of binding. E is a lever, with its pin *g* and corrugated jaw *w*, for the purpose of forcing the clamp *z* upon the cord *v*. The corrugated jaws *w w* are for fastening the cord more securely. F is the cutting-hook for cutting off the cord, after the sheaf has been bound, by an upward pull at the cord *v*. *z* is a clamp for securing the ends of the cord after being passed around the sheaf.

The operation of the binder is as follows: Pass the cord *v* from a spool or reel that may be placed back of or under the binder, up through the eye *u* (see Figs. 1 and 3) in sup-

port B. Now, place the clamp *z* within the jaws *w w*, (see Fig. 5,) draw the cord *v* across the sheaf-trough G and into the recess *p*, under the hook D, and into the clamp *z*, holding the cord in one hand. The binder is now ready for the sheaf, which may be dropped from the reaper as it is cut into the sheaf-trough G and upon the cord *v*. Now, with the other hand seize the cord *v* up near the eye *u*, drawing the cord through the eye *u*, (see Fig. 3,) over the sheaf, down into the recess *p*, under the hook D, and on the cord already in the clamp *z*. (See Fig. 3.) Pull the cord tight with both hands, force down the hook D by pressing with the foot upon the foot-piece *i*, and, the pin *g* at the lower end of lever E, moving in the groove *i*, the corrugated jaws *w w* (see Fig. 3) will close and corrugate the clamp *z* upon the cord *v*, and thus tie the band. By the downward motion of the foot-piece the sheaf-trough will be tilted, as seen in dotted lines, Fig. 1, and when the cord, by the upward pull of the hands, is cut by the cutting-hook F, the sheaf will slide from the trough, and the cord, still held in the hand, will be ready to receive another sheaf after a clamp has been placed between the jaws *w w*.

Claim.

The vertical sliding hook D and foot-piece *i*, in connection with the lever E, head *e*, pin *g*, sheaf-trough G, and cutting-hook F, all working in the manner and for the purpose specified.

JOHN H. MORSE.

Witnesses:

HENRY W. WELLS,
JAMES MORSE.