

T. Wood,

Cutting Shingles,

No 19,275,

Patented Feb. 2, 1858.

Fig. 1.

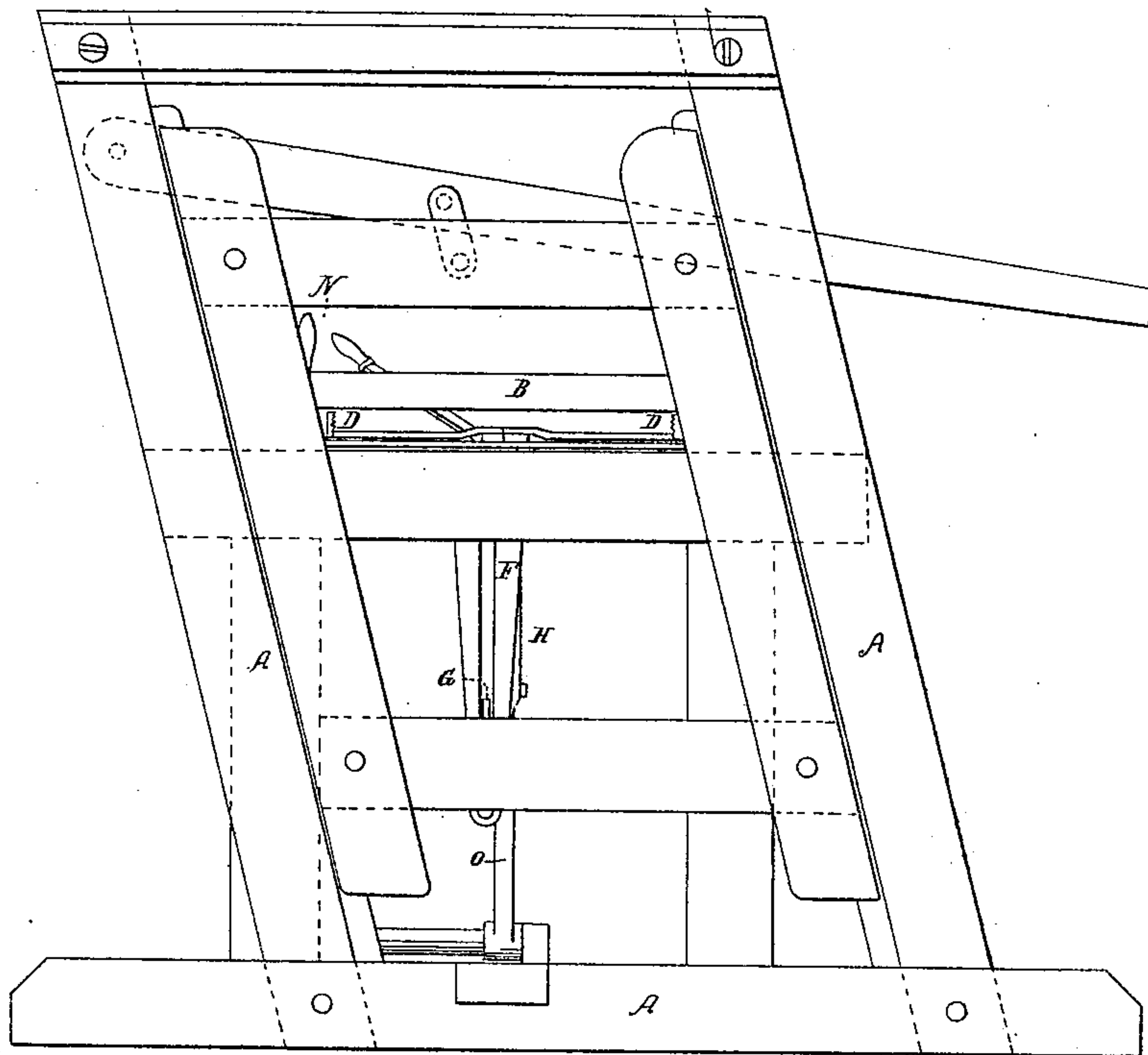
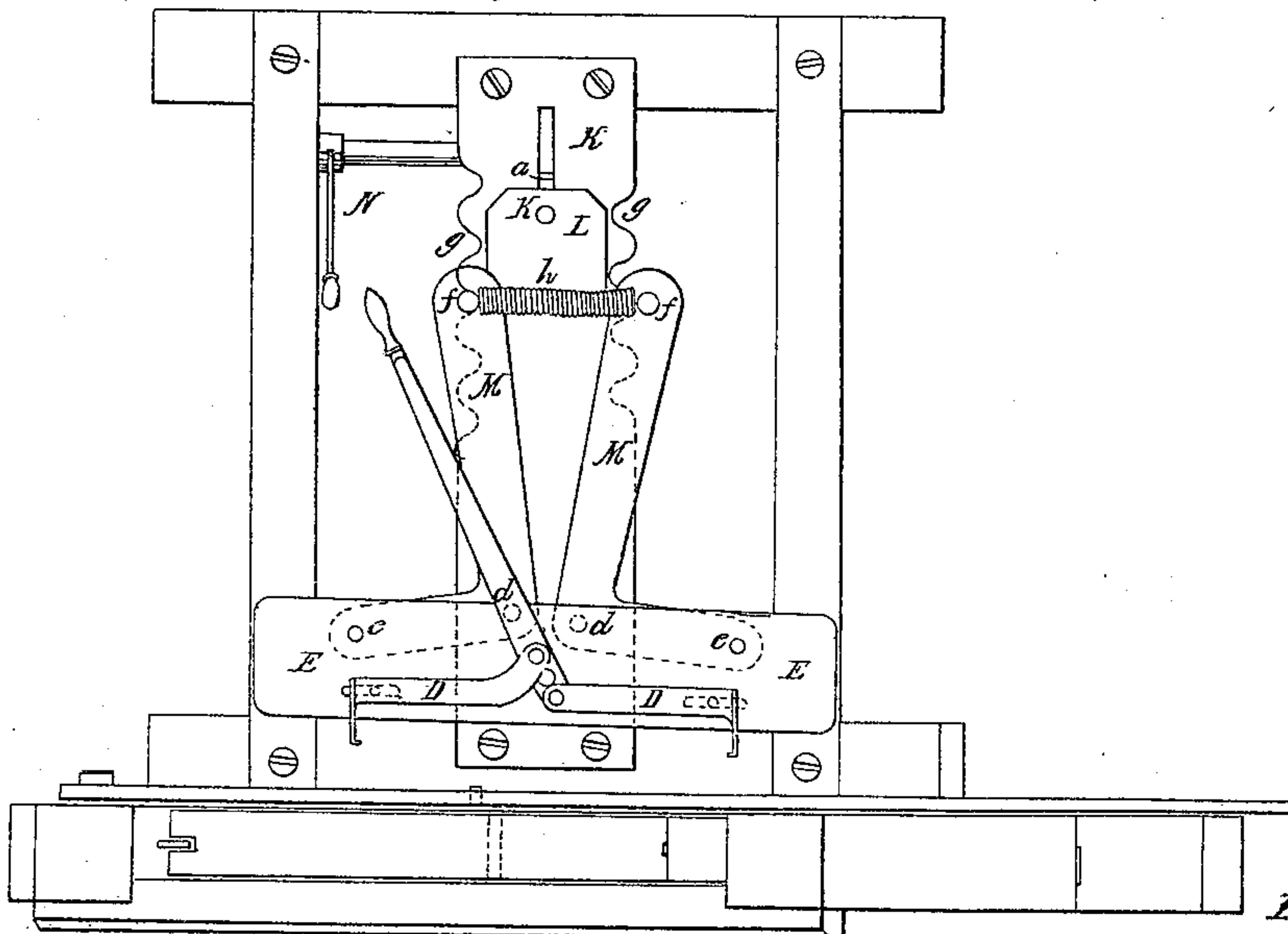


Fig. 2.



Witnesses:
John Cumby
The P. & W.

Inventor.
T. Wood

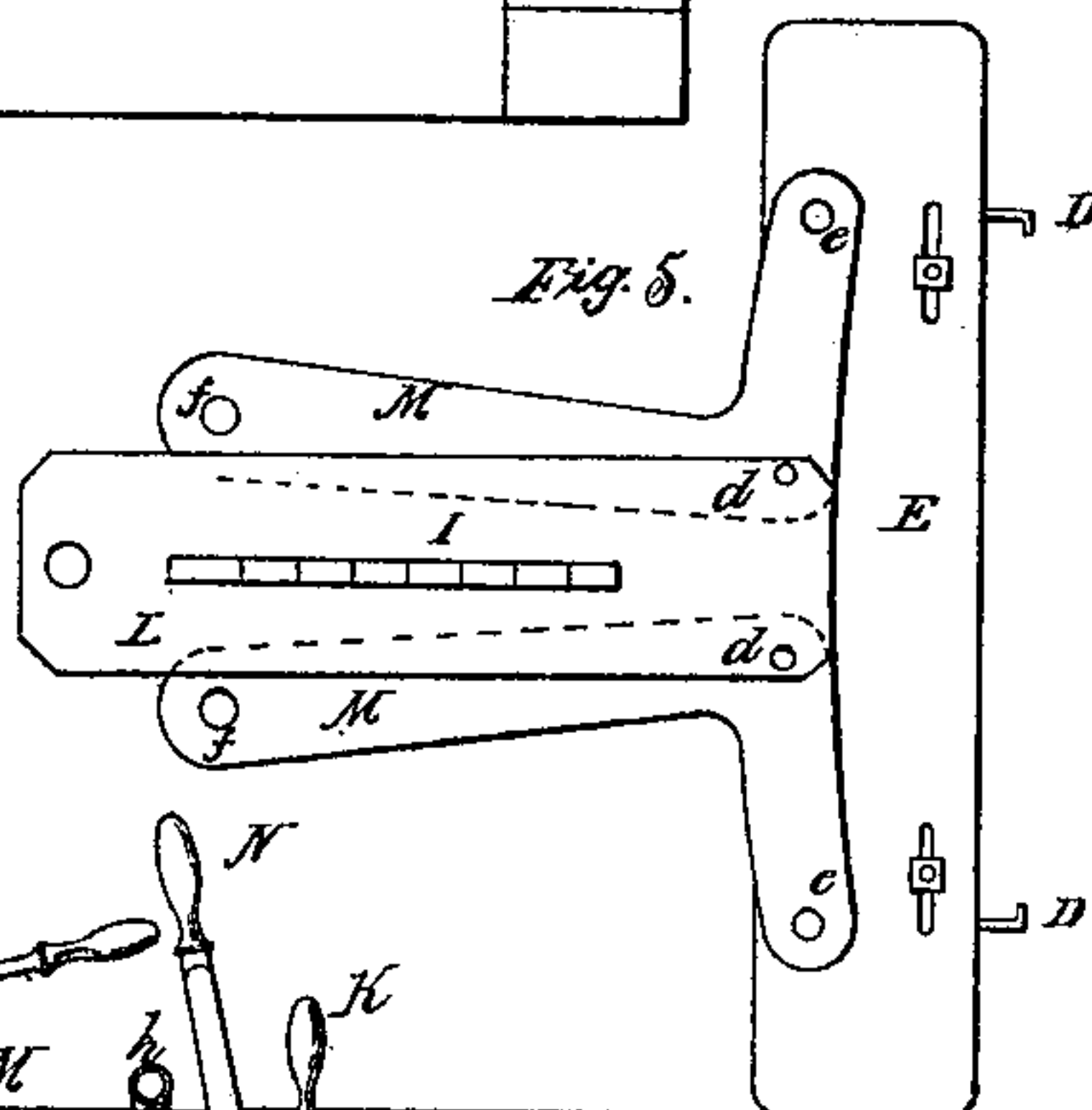
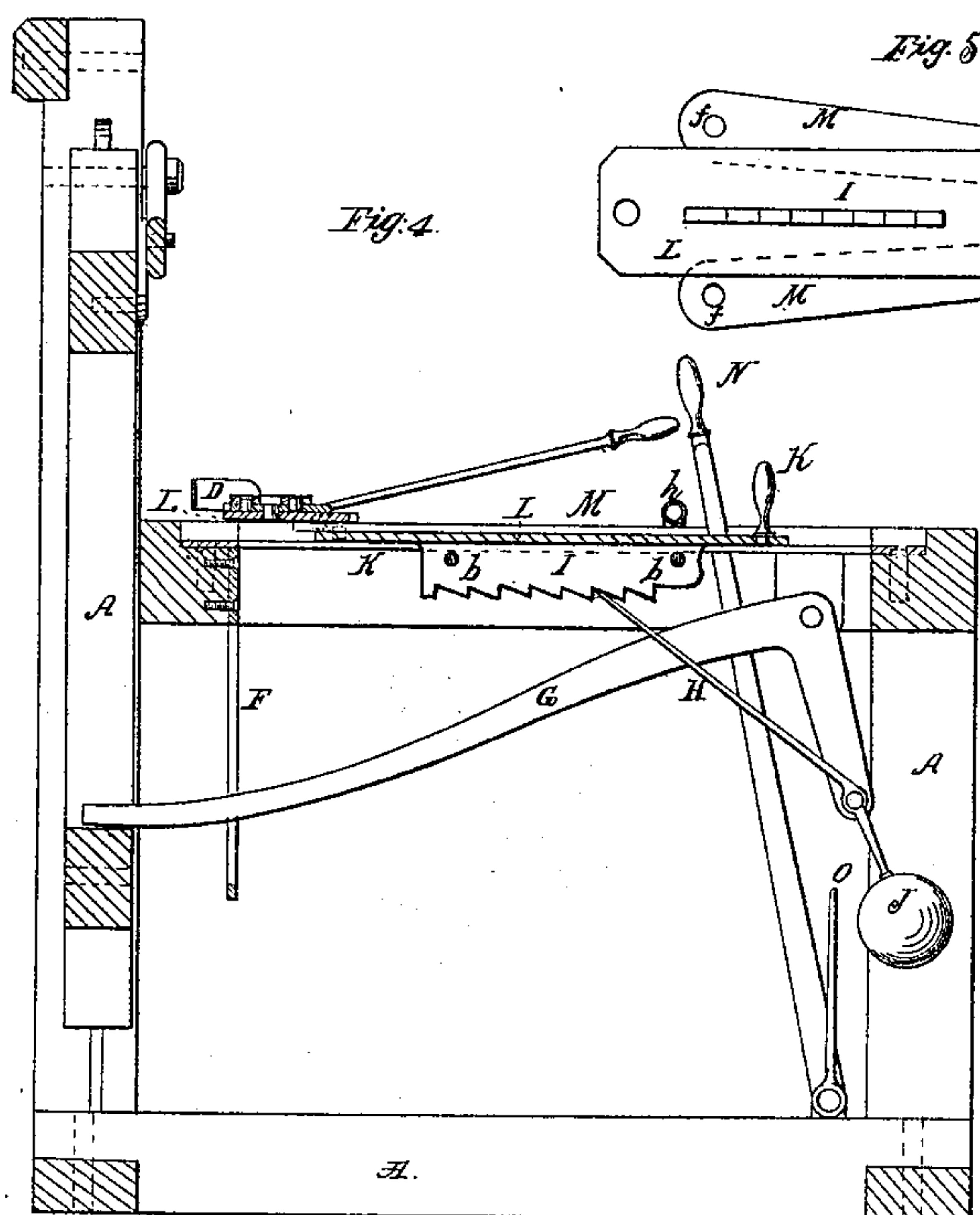
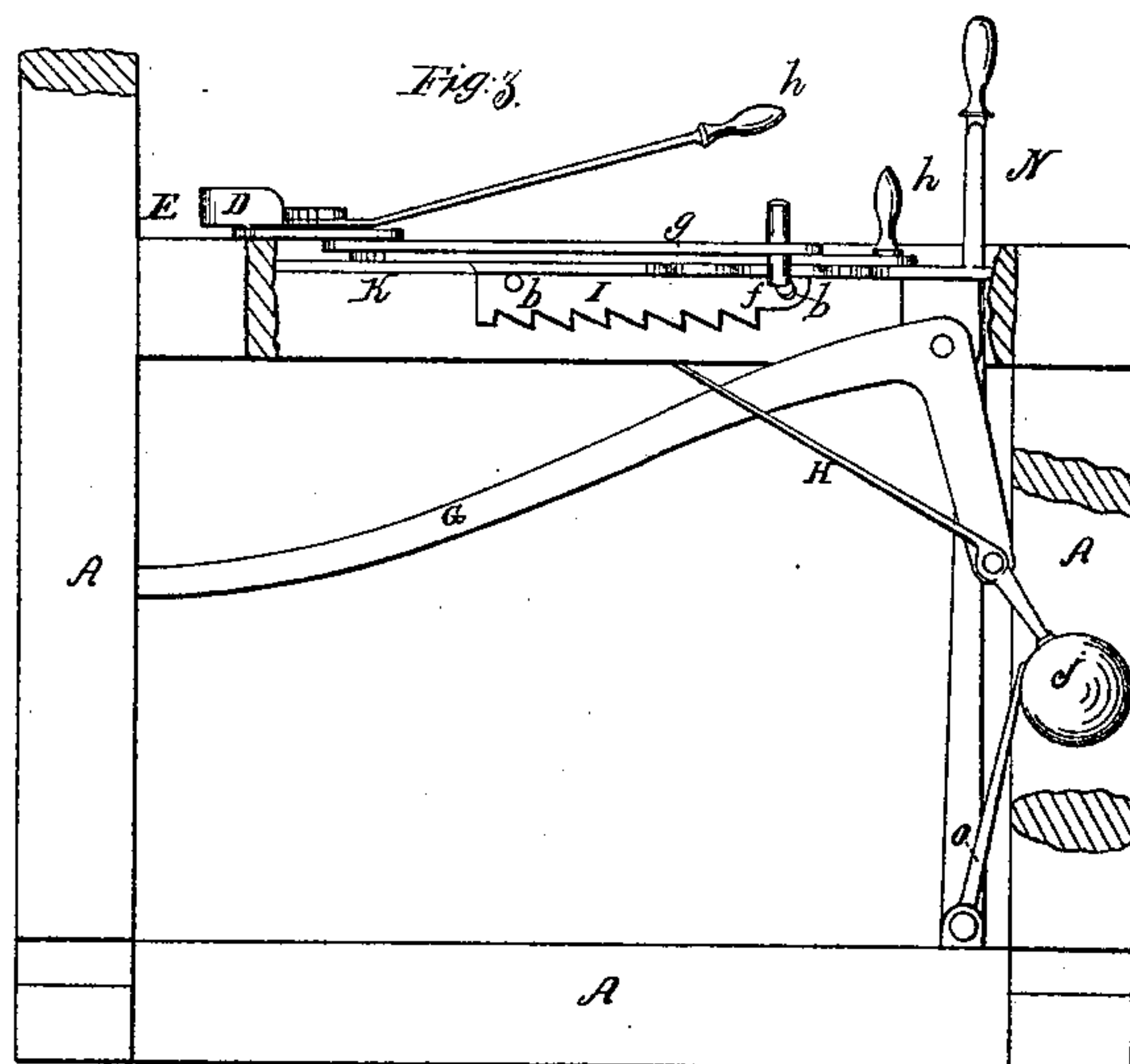
T. Wood,

Sheet 2-2 Sheets.

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Nº 19,275,

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Witnesses:
John Cunniff
Thos. J. Cunniff

Inventor.
T. Wood

UNITED STATES PATENT OFFICE.

TWENTYMAN WOOD, OF GREENWICH, CONNECTICUT.

METHOD OF FEEDING THE BOLT IN SHINGLE-MACHINES.

Specification of Letters Patent No. 19,275, dated February 2, 1858.

To all whom it may concern:

Be it known that I, TWENTYMAN WOOD, of Greenwich, in the county of Fairfield and State of Connecticut, have invented an
5 Improvement in Shingle-Machines, the construction and operation of which I have described in the following specification and illustrated in the accompanying drawings with sufficient clearness to enable competent
10 and skilful workmen in the arts to which it pertains or is most nearly allied to make and use my invention.

My said invention consists in the arrangement of parts hereinafter described for securing the proper vibrations of the blocks
15 from which the shingles are cut.

In the accompanying drawings Figure 1 is an end elevation of my improved machine. Fig. 2 is a plan of it. Fig. 3 is a
20 side elevation with some of the parts broken away to show others more clearly. Fig. 4 is a longitudinal sectional elevation. Fig. 5 is an inverted plan of some of the parts in detail showing the mode of connecting
25 the stock E to the rail I.

The improvement is here represented as attached to a cutting machine which cuts shingles with a knife instead of with a saw, though it may be attached to a sawing
30 machine with equal convenience and advantage.

A is the frame of the machine which is made nearly or quite in the usual manner; and the knife B is attached in any of the ways in which it is now usually attached
35 and operated. If however it is operated by hand care should be taken to give it the same elevation and depression at each stroke and return. The block is secured as in most or all machines of this kind by the
40 dogs D as shown in the figure, and these dogs are attached to the stock E by the common mode of construction. The stock is set up at each elevation of the cutting frame to bring the timber within the reach
45 of the knife by a loop F raising the lever G which operates a pawl H which pawl works into the rack I, the pawl H being kept up to its work by the counterpoise J. This rack I is guided by the slot *a* in the

plate K in which slot it is secured by two
pins *b b*. This rack is cast upon or otherwise attached to the plate L which forms a part of it.

The arms M connect the rack I to the stock by means of the pins *d d* and *e e*; the
55 former of which connects the plate L to the arms M and the pins *e* securing the arms M to the stock E by which means and connection a slight vibration of the stock is allowed. This vibration is controlled to
60 produce the desired result by the pins *f* working into and out of the notches *g* on the outer edge of the plate K, said notches being so constructed and arranged in relation to the other parts that the stock E will
65 be vibrated as it is moved forward to bring the timber under the knife to give the proper shape to the shingle and bring the point of it at either end alternately, the arms M being kept up to the plate K by the
70 spring *h* which is so attached to both arms as to have a tendency to draw them together. This arrangement vibrates the stock and gives the necessary taper to the shingles making the point of the shingle at either
75 end of the block alternately. When the block is worked up to the stock, the pawl H is released by drawing back the lever N, which brings it against the arm O in the counterpoise J, and by continuing the move-
80 ment the pawl H is thrown out of gear, when the block may be drawn back, the operator grasping the handle *k* for that purpose.

The particular improvement which con-
stitutes my said invention and which I claim
85 as having been originally and first invented by me is —

The combination of the notched or corrugated guides with the arms M or their
90 equivalents, and an apparatus for setting the block forward to the knife as set forth.

Greenwich, Conn., January 7, 1858.

TWENTYMAN WOOD.

Witnesses:

JOSEPH W. HILL,
M. S. MASON.