2 Sheets. Sheet 1.

W. J. Scott,

Cutting Shingles.

No. 13,666. Patented Oct. 9, 1855.

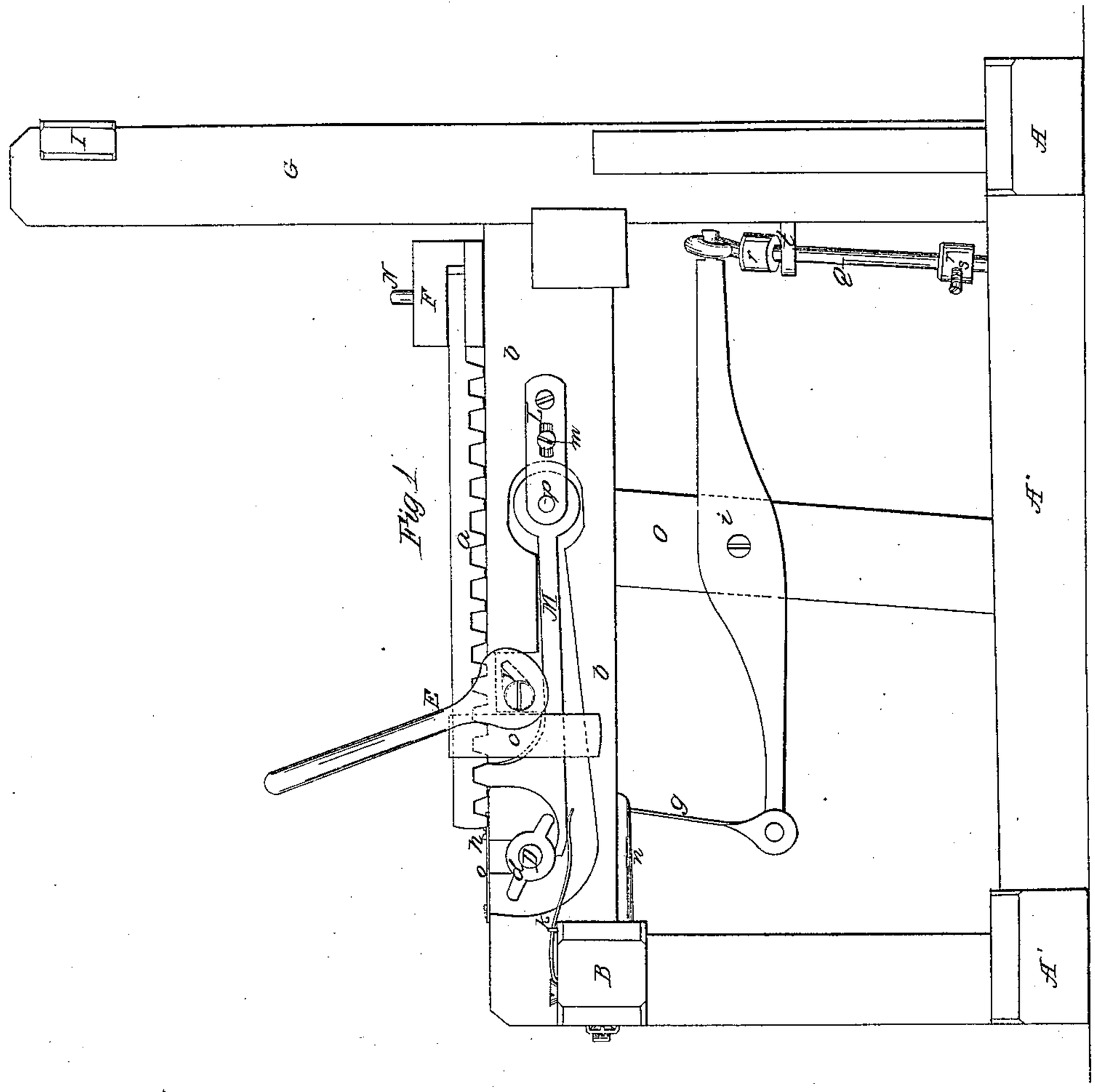

Fig. 1.

Witnesses
J. F. McFarlin
S. D. Mills

2 Sheets. Sheet 2.

W. J. Scott,

Cutting Shingles.

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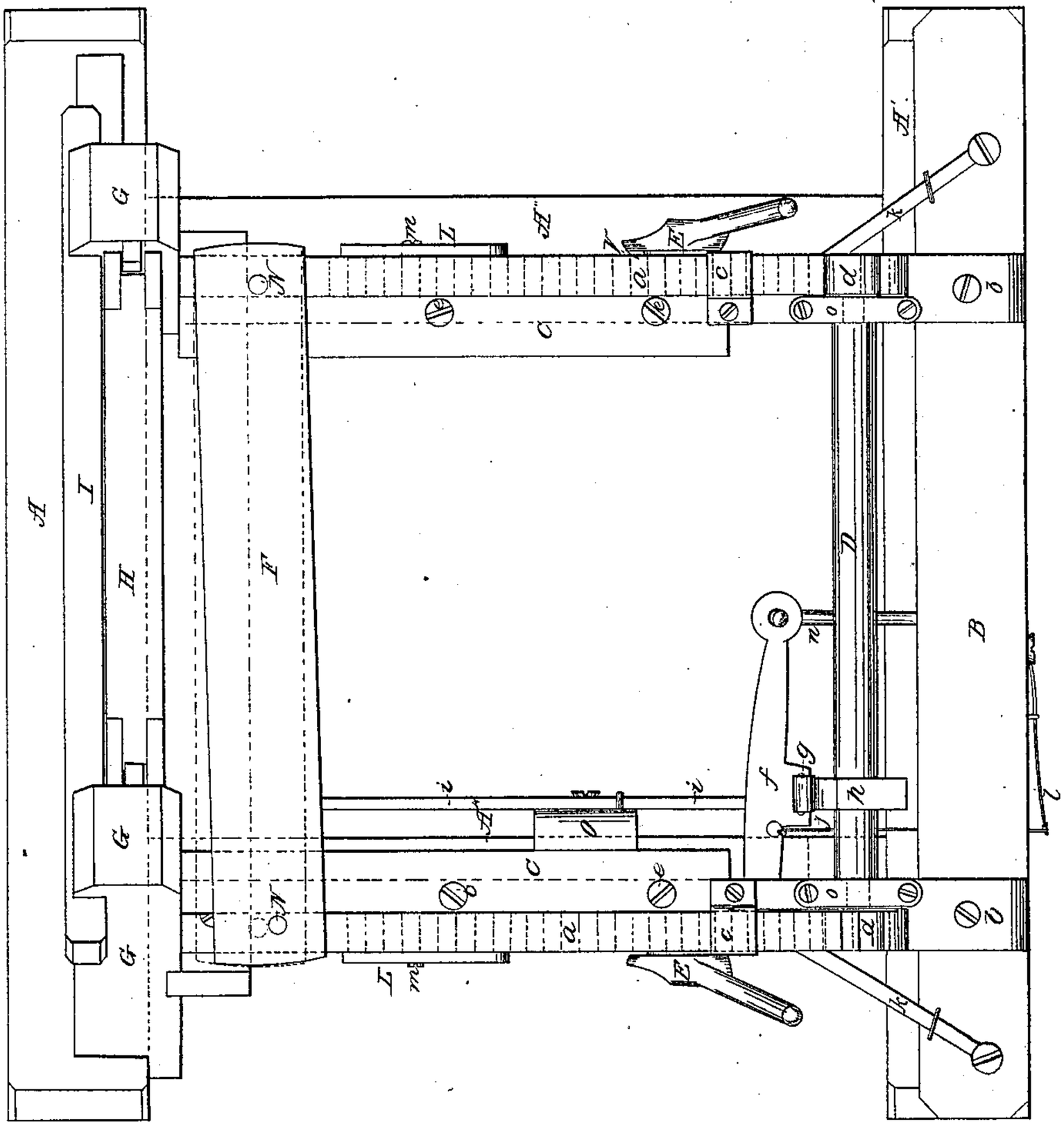

Fig. 2.

Witnesses
J. F. McIntire
S. D. Mills

UNITED STATES PATENT OFFICE.

WM. J. SCOTT, OF CARTHAGE, NEW YORK.

METHOD OF FEEDING SHINGLE-BOLTS TO KNIVES.

Specification of Letters Patent No. 13,666, dated October 9, 1855.

To all whom it may concern:

Be it known that I, WM. J. SCOTT, of Carthage, in the county of Jefferson, in the State of New York, have invented a new and useful Improvement in the Construction and Operation of Feedwork to Shingle-Cutting Machines; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and the letters marked thereon.

The nature of my invention consists—firstly, in the use of the two handles (E E) attached to the cams (*v v*) for depressing or throwing out of gear the arm (M); secondly, in pivoting the arm (M) to a movable bar (L) for the purpose of more readily and accurately adjusting the said arm (M); thirdly, in the application and peculiar construction of a lever (*i*) one end of which is attached to the knife frame (H) and the other to hand (*g*), which operate upon the ratchet (*h*).

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct the frame of the machine in the usual way as represented at A, A′, A″, A‴, B, *b*, G. I, and also the knife frame (H) as generally constructed. I construct the carriage with the frame (F) for holding the block and the racks (*a a*) which are fed forward alternately by the cams (*d d*) which are attached to each end of the shaft (D) and so adjusted that they operate alternately upon the two racks for the purpose of feeding the carriage in such a manner that at each stroke of the knife its face is at the required angle with said knife.

(*h*) is the ratchet attached to shaft (D). Said ratchet is rotated by means of the hand (*g*) which is attached to one end of the lever (*i*), which lever (*i*) receives a vibratory motion from the knife frame (H) to which it is attached by the rod (Q) passing through the stand (*b*).

(*r*, *r*,) are two adjustable stops against which the stand (*b*), (which is attached to the knife frame,) strikes alternately in its upward and downward motion, thus give the vibratory motion to the lever (*i*) which is communicated by the hand (*g*) to the ratchet (*h*), from thence through the shaft to the cams (*v*, *v*,) which operate upon the racks (*a*, *a*) and thus feed the carriage bearing the block, to the knife.

(E, E) are the handled cams for throwing down the arm (M) for the purpose of allowing the carriage to be run back to receive another block and repeat the operation already described.

(L), (L), are two bars to which the arm (M, M,) are pivoted, said bars being adjustable for the purpose of more readily adjusting the arms (M, M.)

(*k*, *k*,) are two springs for keeping the arms (M, M) in gear with the racks (*a*, *a*,) when the cams are thrown up.

(*l*) is a spring attached to the lever (*f*) to throw the hand (*g*) over the tooth of the ratchet (*h*).

What I claim as my invention and desire to secure by Letters Patent, is,

1. The application and construction of the two handled cams (*v*, *v*) also the adjustability of the arms (M, M) by means of the bars (L, L,) as described.

2. I claim the combination of the rocking lever (*i*) clutch or hand (*g*) lever (*f*) and spring (*l*) with the knife frame for the purpose of feeding intermittingly the block to the knives in the manner described.

WILLIAM J. SCOTT.

Witnesses:

JNO S. HOLLINGSHEAD.

J. N. MCINTIRE.