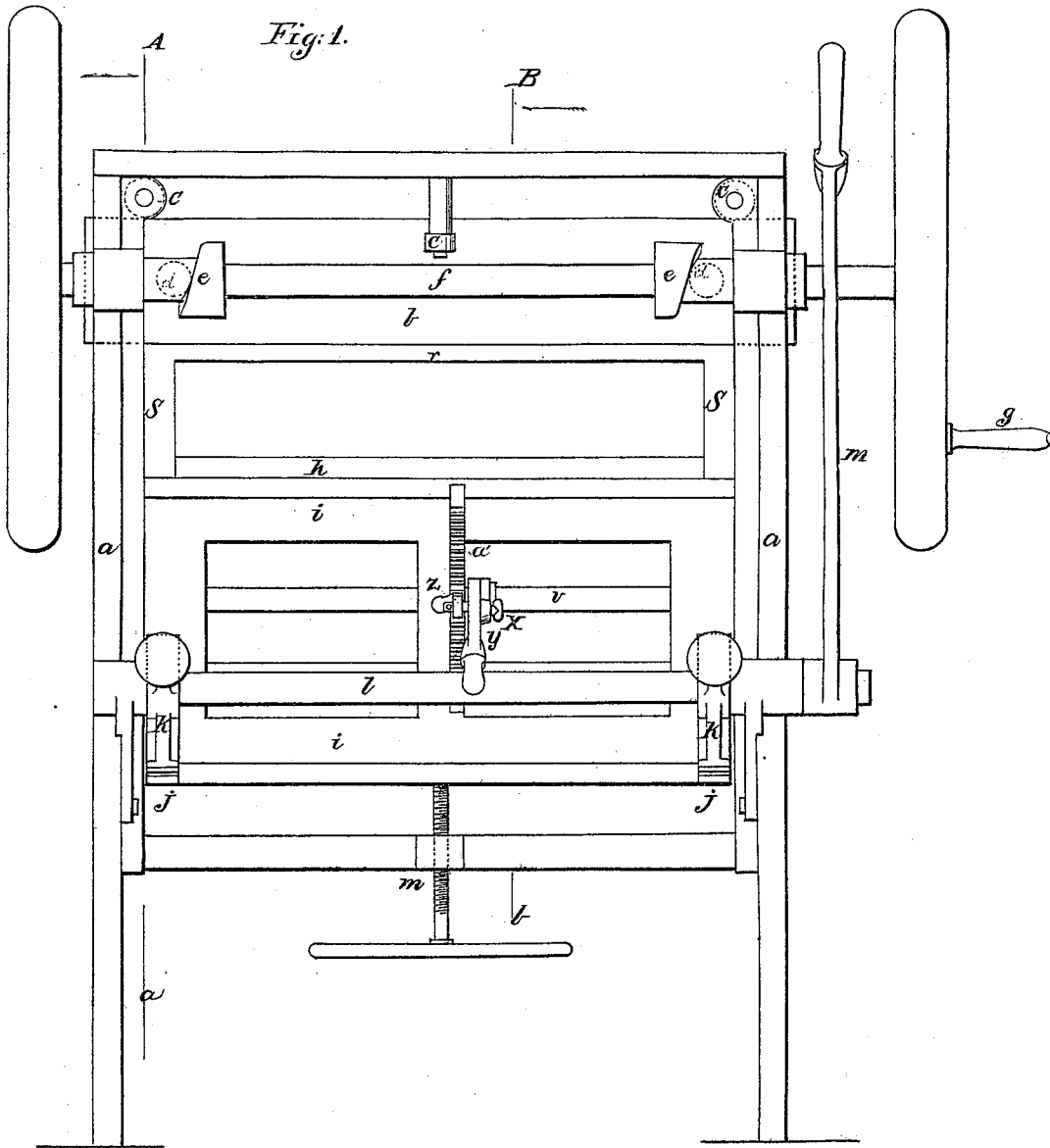


*J. E. Mallory. Sheet 1. 3 Sheets.*  
*Paper Cutting Mach.*

*N<sup>o</sup> 276.*

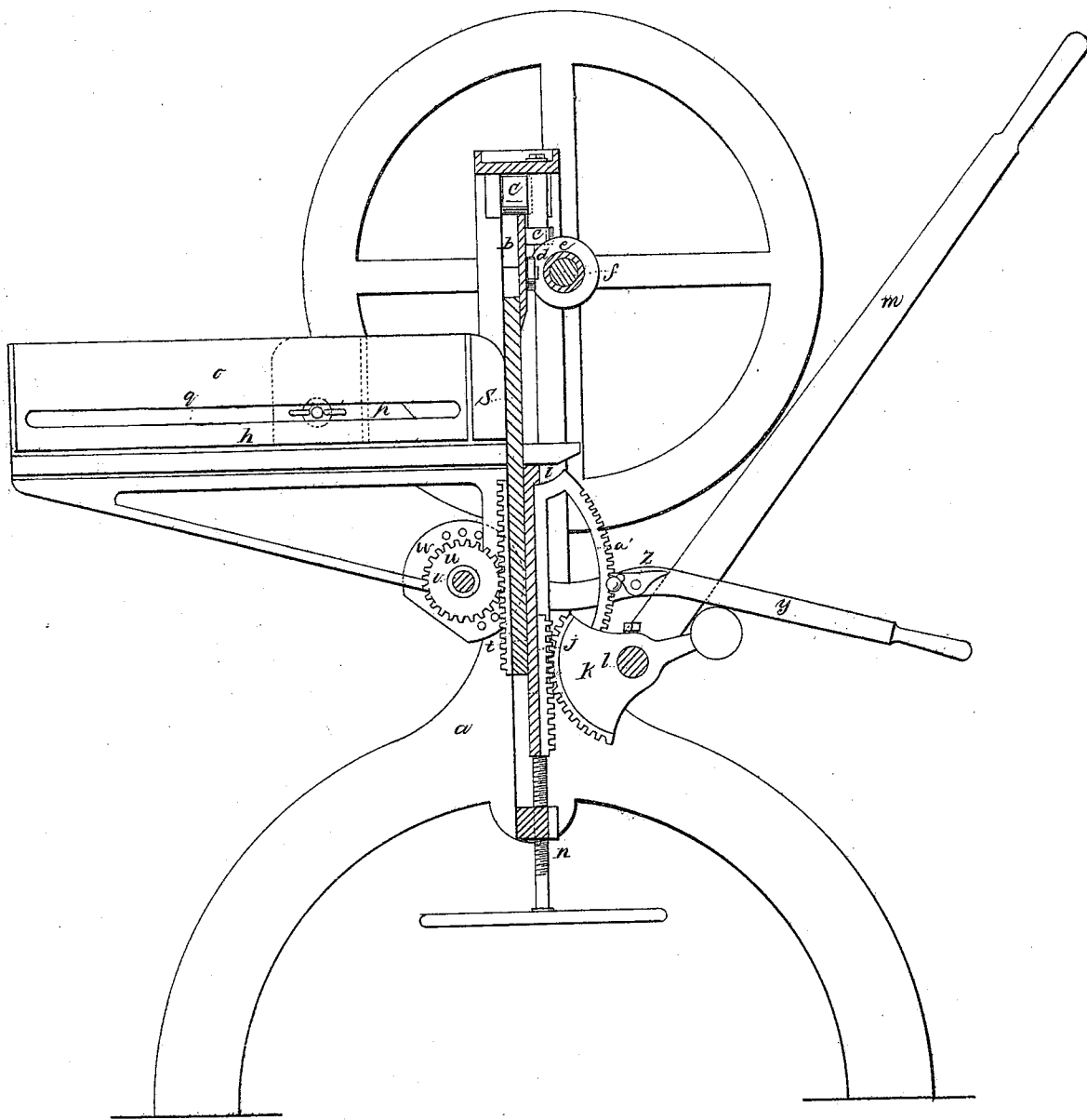
*Patented Sept. 21. 1852.*

*Fig. 1.*



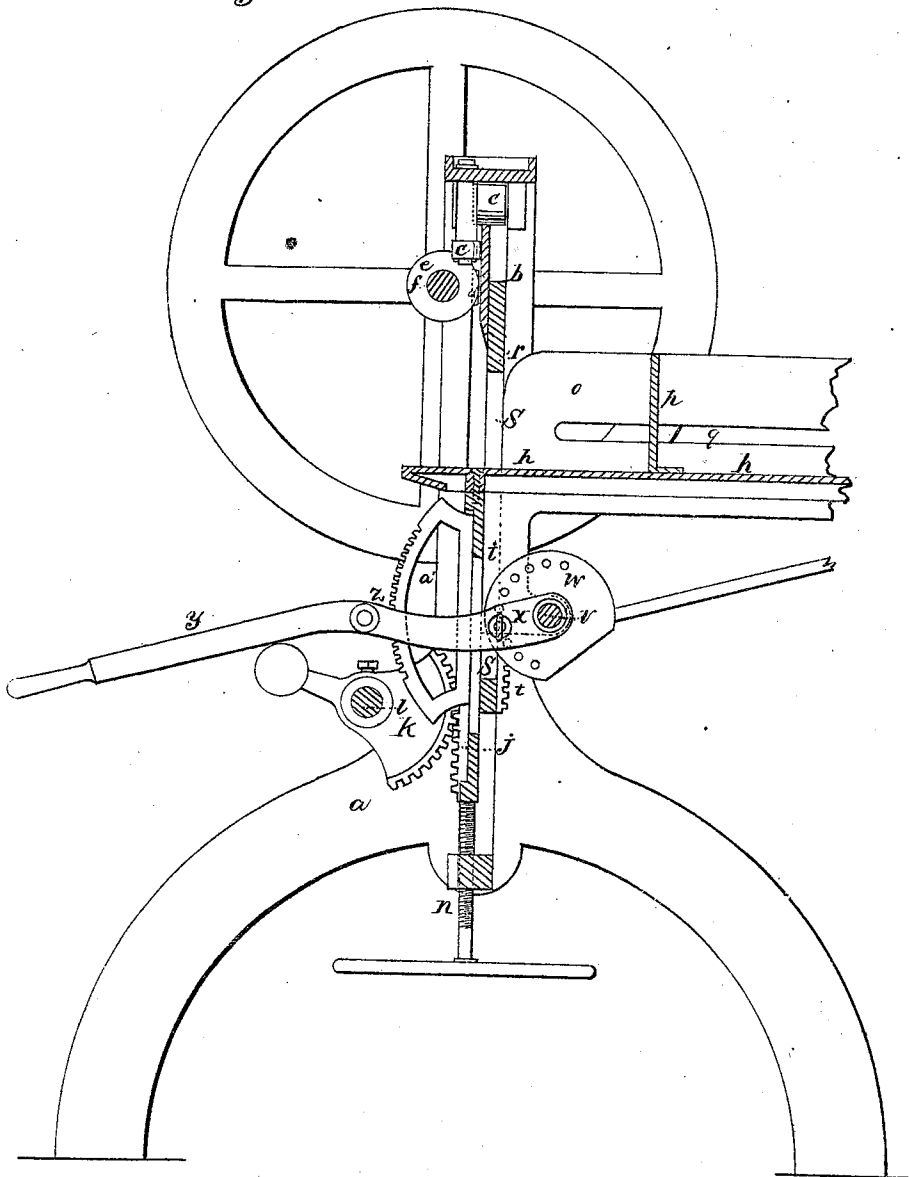
*J. E. Mallory. Sheet 2 of 3 Sheets.*  
*Paper Cutting Mach.*  
*Nº 9276. Patented Sept. 21, 1852.*

*Fig: 2, Vertical Section . A. A.*



*J. E. Mallory. Sheet 3 of 5*  
*Paper Cutting Mach.*  
*Nº 9276. Patented Sept. 21. 1852.*

*Fig. 3. Vertical Section. I. I.*



# UNITED STATES PATENT OFFICE.

JAMES E. MALLORY, OF NEW YORK, N. Y.

## PAPER-CUTTING MACHINE.

Specification of Letters Patent No. 9,276, dated September 21, 1852.

*To all whom it may concern:*

Be it known that I, JAMES E. MALLORY, of the city, county, and State of New York, have invented a certain new and useful Improvement in Machines for Cutting Paper; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1, is a front elevation of the machine, and Figs. 2 and 3 vertical sections thereof, taken at the lines (A, *a*,) and (B, *b*,) of Fig. 1.

The same letters indicate like parts in all the figures.

My invention relates to the machine for cutting paper for the use of book binders and others, and consists in so combining and arranging a vibrating knife with a movable platform and clamp that the paper can be firmly held and clamped on the platform, and then the platform elevated to submit the paper to the action of the vibrating knife.

In the accompanying drawings (*a*) represents the main frame, and (*b*) a horizontal knife extending across the frame and properly fitted to slide in recesses in the upper part of the frame. To reduce friction the knife runs on rollers (*c*). The front face of the knife is provided with two rollers (*d*, *d*,) which are acted upon by two face cams (*e*, *e*) on a horizontal shaft (*f*) to give the required reciprocating motion to the knife, the said shaft being operated by a crank handle (*g*) or by any other suitable means.

The platform (*h*) on which the paper to be cut is placed makes part of a vertically sliding frame (*i*) adapted to slide in ways in the main frame. This frame is provided with two racks (*j*, *j*) the cogs of which engage two cogged sectors (*k*, *k*) on a horizontal shaft (*l*) provided with a hand lever (*m*) by which the frame and platform can be elevated and depressed. Below there is a set screw (*n*) on which this frame rests when let down, and by means of which the extent of the downward motion of the frame can be regulated to suit the thickness of the pile of paper to be cut at any one operation.

The platform is provided with sides (*o*, *o*,) and a back gage piece (*p*) which slides on the platform to bear against the back edge of a pile of paper, and which when set can be secured in place by a screw bolt passing through slots (*q*) in the sides (*o*, *o*) and nuts on the outside.

The paper after it has been put on the platform is firmly held and clamped by a clamp bar (*r*) which is attached at each end to vertical bars (*s*, *s*) that slide in the same ways as the frame of the platform, and provided with cogged racks (*t*, *t*) which are engaged by the cogs of two pinions (*u*) on a horizontal shaft (*v*) mounted in the sliding frame and provided with a circular plate (*w*) with holes to receive a securing pin or bolt (*x*) to fasten a hand lever (*y*) that turns on the said shaft (*v*). The object of thus connecting the hand lever with the shaft is to admit of setting the clamp to a given distance from the platform for various thicknesses of piles of paper so that the hand lever for each operation will require to be moved only to the extent required to clamp the paper. When the hand lever is brought down to clamp the paper it is there held by a dog or catch (*Z*) which catches in the teeth of a sector rack (*a'*) attached to the sliding frame.

In this way it will be seen that a pile of paper—say for a book—being placed on the platform with one edge against one of the sides and the back edge against the back rest previously set to the required gage, the operative with one hand draws down the hand lever (*y*) which draws down the clamp bar and firmly clamps the paper onto the platform, with the front face of the clamp bar in the same plane as the inner face of the knife, and as the attendant does this with one hand, with the other he draws down the other hand lever (*m*) which carries the paper up against the knife which is kept vibrating by any desired power until it cuts entirely through the paper, the upward range of motion of the platform being gaged to prevent the knife from cutting into the platform. The platform is then let down and the clamp released, the pile of paper turned, and the same operation repeated as often as required on the same pile

or another pile of paper. If the platform be sufficiently wide several piles of paper can be cut at one and the same time.

Having thus fully described the nature  
5 of my invention what I claim as new therein  
and desire to secure by Letters Patent is—  
The arrangement of the movable platform

and sliding clamp, as described, in combination with the vibrating knife, as described.

JAS. E. MALLORY.

Witnesses:

CARSTEN BROWNE,  
J. GAYLORD WELLS.