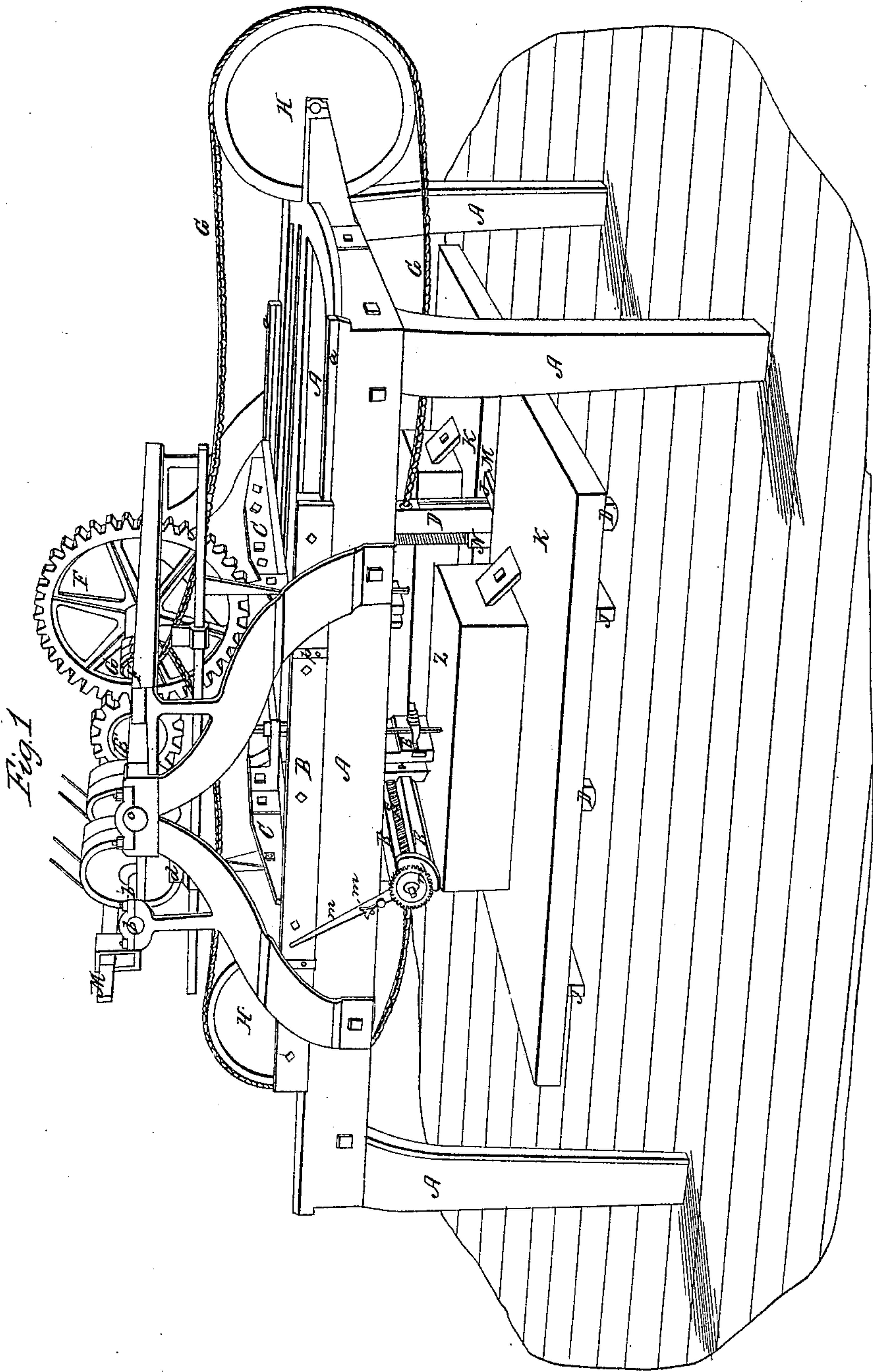


2 Sheets Sheet 1.

*E. Brady,*  
*Planing Stone.*

*Nº 19,407.*

*Patented Feb. 23, 1858.*

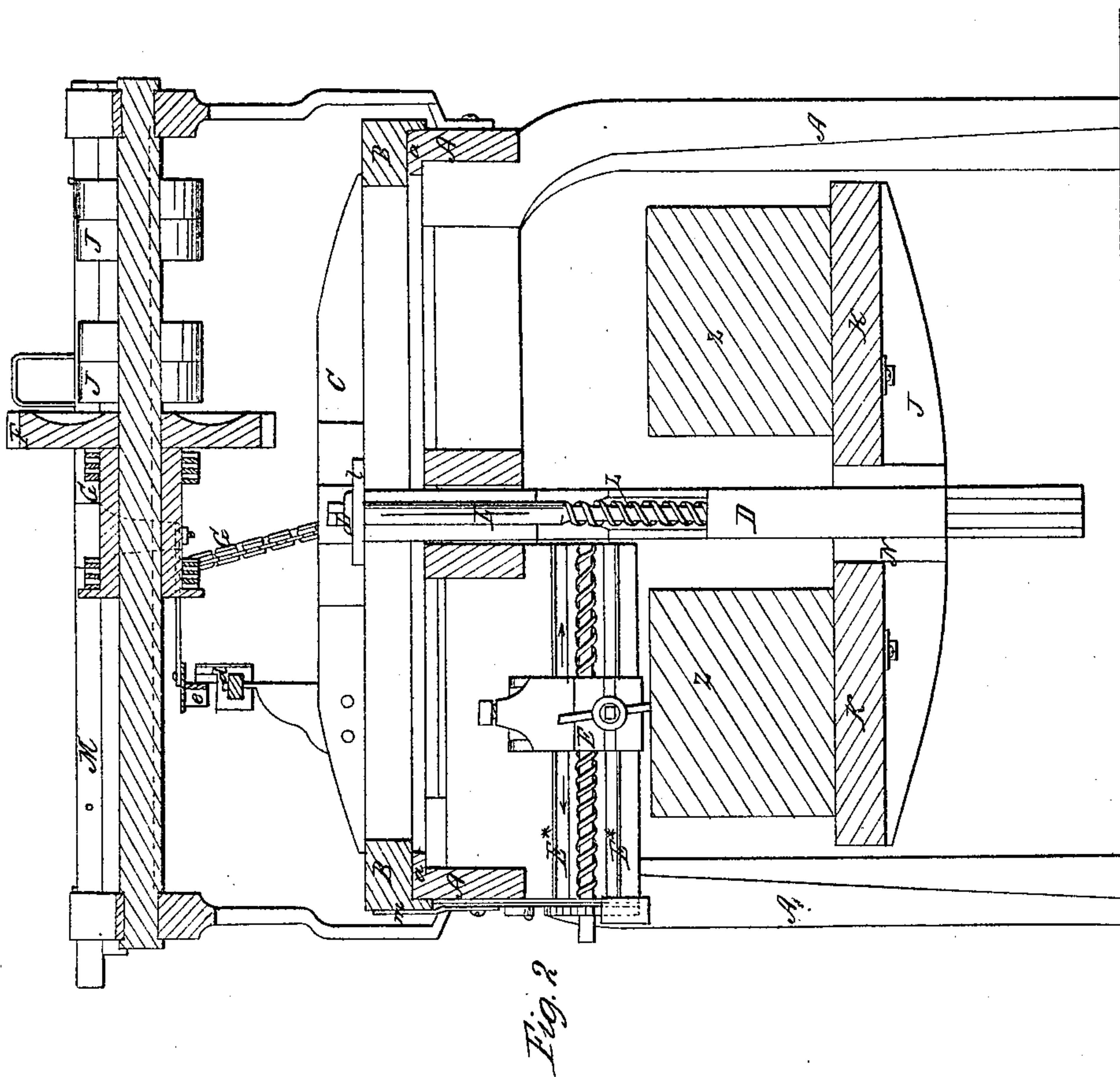


2 Sheets, Sheet 2.

*E. Brady,  
Planing Stone.*

*N<sup>o</sup> 19,407.*

*Patented Feb 23, 1858.*





# UNITED STATES PATENT OFFICE.

ELIJAH BRADY, OF NEW YORK, N. Y.

## DRESSING-MACHINE.

Specification of Letters Patent No. 19,407, dated February 23, 1858.

*To all whom it may concern:*

Be it known that I, ELIJAH BRADY, of New York, in the county of New York and State of New York, have invented a new and useful Machine for Stone-Dressing, it being somewhat similar to an iron-planing machine; and I do declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification.

Figure 1, is a perspective view of a machine constructed according to my improvement, and Fig. 2, is a vertical transverse section of the same.

Similar letters of reference indicate corresponding parts in the two figures.

This invention consists in combining two movable platforms with the tool stocks, which are also movable in such a manner that the tools inserted in said tool stocks, are made to travel over the whole surface of the stones by the action of the machine, one of the tools being in operation while the platforms move in one direction and the other tool, while the platforms move in the opposite direction thereby dressing the surface of the stones exposed to said tools with dispatch and with but a small expenditure of power.

To enable those skilled in the art to fully understand and construct my invention I will proceed to describe it.

A, is a frame, which must be of sufficient strength and high enough to make room for the platforms. On the top of this frame moves the carriage B, on ways (a), motion being conveyed to the same from the driving shaft (b), by means of cog wheels E', and F, and by a chain G, which winds several times around a drum F', on the shaft (c) of the cog wheel F, and extends from there over the pulleys H, at the end of the frame, being rigidly attached to the upright beams D, which beams extend from the platform B, downward. The motion of the machine is changed by a belt shipper M, which is operated by the action of two pieces (d), (d'), against a cam (e), somewhat in the same manner as on other machines where a change of motion is desirable. The beams D, are embraced by clasps N, which are made to move up and down by two screws L, and these clasps form the supports for the platforms K, by

means of braces J, extending from the same to such a distance as required by the desired width of the platforms K. The heads of the screws L, are supported by flanches (b), extending from the cross-bars C, of the carriage B, and they screw into the clasps N, so that by turning the screws L, the clasps together with the platforms are raised or lowered. The toolstocks E, are fitted on the ways E\*, by means of dovetails, and they can be moved in the direction of the arrows (l), by a screw S. The toolstocks are hinged on the top as is usually done on iron planers, for instance where the tool is required to work in one direction while it don't operate in the other one.

The screws S, are operated by ratchet wheels (m) which are fastened at the end of said screws, and the pawls (m') which are pivoted to the levers (m\*). These levers extend upward and they are operated by coming in contact with the pins (p) fastened to the sides of the carriage B, at such distances as the size of the respective stone requires. The pawls (m') may be turned either one way or the other according to the direction in which the toolstocks are required to move.

The operation is as follows: The stones Z, are secured on the platforms K, and these platforms are raised to such a height as the size of the stones requires, by means of screws L. The toolstocks E, are brought in such a position that the tools are in line with the outer edges of the two stones and the machine is started. By the action of the screws S, the tools will be made to travel over the surfaces of the stones cutting away as much as necessary to make the surfaces smooth and one of the tools will work in one direction while the other acts in the other direction, whereby the strain on the machine is always the same and it is made to work both ways.

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

The arrangement and combination as herein shown and described of the two adjustable platforms K, with the self adjusting tool stocks E, for the purposes specified.

ELIJAH BRADY.

Witnesses:

J. T. BALL,  
W. W. SMALLWOOD.