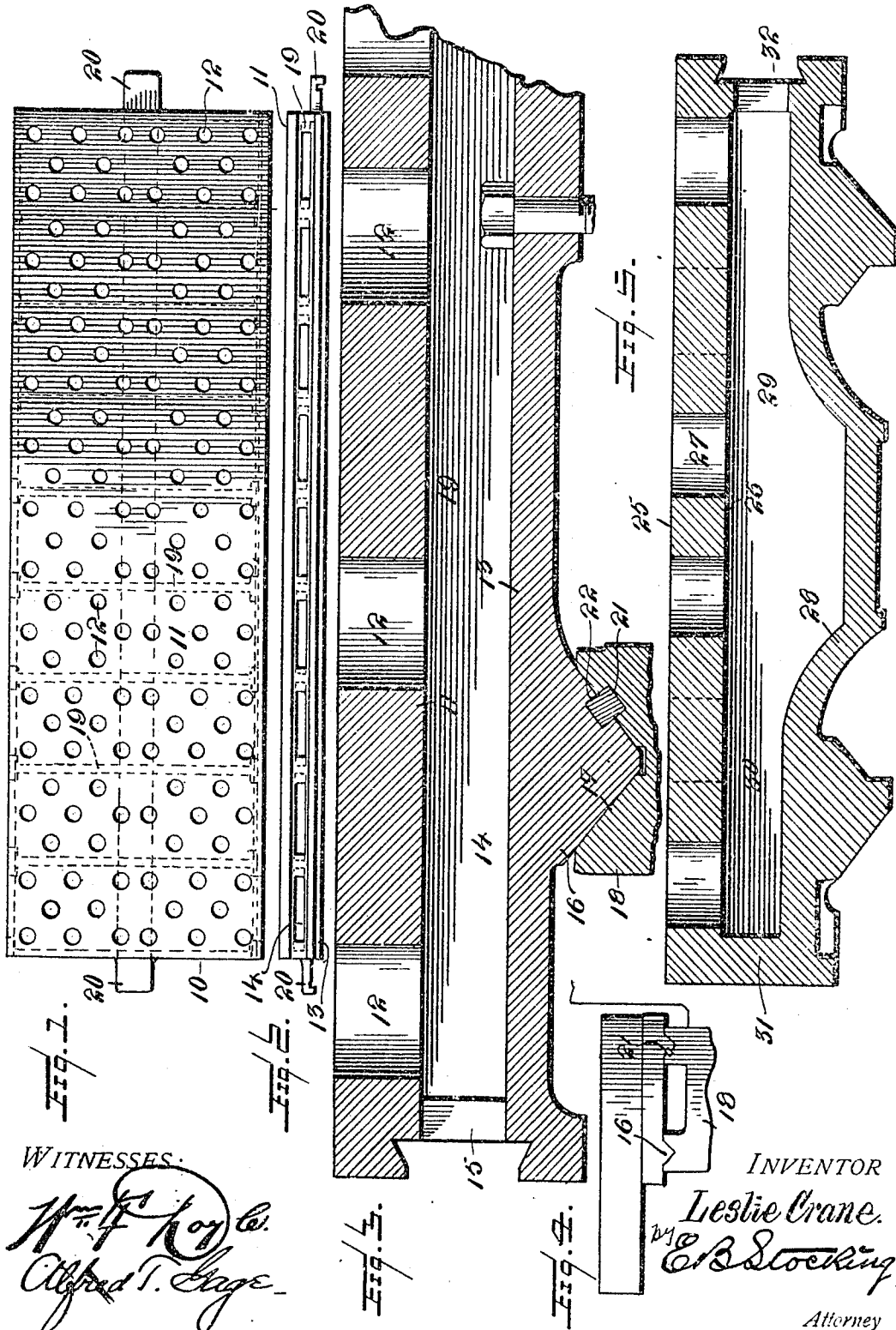


L. CRANE.
STONE PLANING PLATEN.
APPLICATION FILED APR. 14, 1909.

949,316.

Patented Feb. 15, 1910.



WITNESSES:

Wm. F. Roy Co.
Alfred T. Sage

INVENTOR

Leslie Crane.
E. B. Stocking

Attorney

UNITED STATES PATENT OFFICE.

LESLIE CRANE, OF RUTLAND, VERMONT, ASSIGNOR OF ONE-HALF TO F. R. PATCH
MANUFACTURING COMPANY, OF RUTLAND, VERMONT.

STONE-PLANING PLATEN.

949,316.

Specification of Letters Patent.

Patented Feb. 15, 1910.

Application filed April 14, 1909. Serial No. 489,832.

To all whom it may concern:

Be it known that I, LESLIE CRANE, a citizen of the United States, residing at Rutland, county of Rutland, and State of Vermont, have invented certain new and useful Improvements in Stone-Planing Platens, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to a stone planing platen, and particularly to a structure adapted to travel upon ways and cooperating with a tool holding structure adjacent thereto.

15 The invention has for an object to provide a platen comprising an upper apertured plate and a lower solid plate spaced from each other to form an intermediate open compartment adapted to receive dust, chip-
20 pings or other material passing through the apertures of the platen top and to permit its ready removal from said compartment.

A further object of the invention is to provide a key cooperating with the inclined track or way and the platen guide so as to
25 prevent the tilting of the platen when used in connection with a stone extending beyond the side thereof, for instance, in connection with an open side planer adapted to
30 operate upon a stone resting upon the platen. Other and further objects and advantages of the invention will be hereinafter fully set forth and the novel features thereof defined by the appended claims.

In the drawing:—Figure 1 is a plan of
35 the platen; Fig. 2 is a side elevation thereof; Fig. 3 is an enlarged detail section; Fig. 4 is a detail elevation showing the application of a stone, and Fig. 5 is a detail
40 section, similar to Fig. 3, of a modified form of the invention.

The numeral 10 designates the platen which may be of any desired size or configuration and formed in any preferred manner, for instance, as a cored casting. This platen
45 comprises the upper plate 11 provided with the apertures 12 which comprise stake holes to receive suitable securing devices for the stone or other material disposed upon the
50 platen in its operation. Beneath the apertured plate 11 and spaced therefrom is a solid bottom plate 13, thus forming a compartment 14 having an opening 15 at one or both ends. The solid bottom plate also carries the guide or rib 16 having inclined
55 faces 17 adapted to traverse the track or way

18 mounted upon a suitable base. Intermediate the top and bottom plates are a series of transversely disposed partitions 19 spaced from each other to form compartments 14. These compartments, as shown in Figs. 1, 60 2 and 3 are open at opposite ends so that a lathe or other tool may be introduced from one side to remove collected material from the compartments, or such material can be directly pushed out from one side of the
65 platen to the other. The platen is provided at opposite ends with connectors 20 by which motion may be imparted thereto for movement upon the track or ways 18.

For use of the invention in some classes 70 of planers, such as those having the tool disposed at only one side thereof and the other side open, I have provided a key 21 disposed in the inclined wall of the way 18 and extending into the guide or rib 17, 75 said key being secured to one of said parts so as to have sliding contact with the opposite part. This key is provided with its side walls 22 disposed at an angle to the inclined face of the way, it being here shown 80 at substantially a right angle. The object of the key is to prevent the tilting of the platen upon its ways when a large stone or other object is secured thereto with a portion extending over and beyond the open
85 side of the machine. The overhanging load has a tendency to raise the inner side of the platen from its way, and this disposition of the key prevents such action and secures the platen in fixed relation to the cutting tool
90 so as to secure the most accurate work even when there is a large extension of the stone.

The construction shown in Fig. 5 is of a form of platen adapted for use when adjacent platens are connected together to form 95 a double platen machine. In this form the platen 25 is provided with the upper plate 26 having the apertures 27, and the lower solid plate 28 with the intermediate spaced transverse partitions 29 forming a series of
100 compartments 30, as described in connection with Fig. 1. In double platens these compartments are closed at one end by a wall 31 and provided at their opposite end with an opening 32, the compartments in each
105 instance extending entirely across the platen so that it may be readily cleaned from the side opening, as before described.

In the operation of the invention it will be seen that material passing through the 110

apertured top plate of the platen is caught and held within the compartments and the chips or dust thus prevented from dropping into the bed of the machine or into contact
 5 with any of the moving parts. The compartments can be readily cleaned by the passage of a tool from one side to the other as there is no longitudinal partition extending between the spaced plates of the platen, and
 10 the series of independent compartments can be cleaned as found necessary as the material passing thereinto is held until removed from the side of the platen. In the use of a single platen this material can be simply
 15 pushed or forced from one side of the platen to the other and there discharged. The arrangement of the key between the guide rib and way prevents tipping of the platen by an overhanging load thereon and by its
 20 disposition at the side of the platen next the tool holder acts most efficiently to resist the leverage produced by the projecting material. It will therefore be seen that the
 25 economically constructed form of platen adapted for use in stone working machines or any other class of similar devices to which it may be applicable.

Having described my invention and set forth its merits, what I claim and desire to
 30 secure by Letters Patent is:—

1. The combination with an inclined track way, of a platen having a guide rib co-
 35 operating with said way, and a key disposed upon the inclined face of one of said members to slidingly engage the other member and resist lateral movement thereof.

2. The combination with an inclined trackway, of a platen having a guide rib co-
 40 operating with said way, and a key disposed upon one of said members and having its side face disposed at an angle to the inclined face of said way.

3. The combination with parallel trackways, of a platen having parallel guide ribs
 45 coöperating with said ways, and a key engaging the inner track way and rib and disposed to resist an overhanging load ex-
 50 tended from the outer edge of the platen.

In testimony whereof I affix my signature
 50 in presence of two witnesses.

LESLIE CRANE.

Witnesses:

WM. J. MCGARRY,
 GEORGE C. COBB.