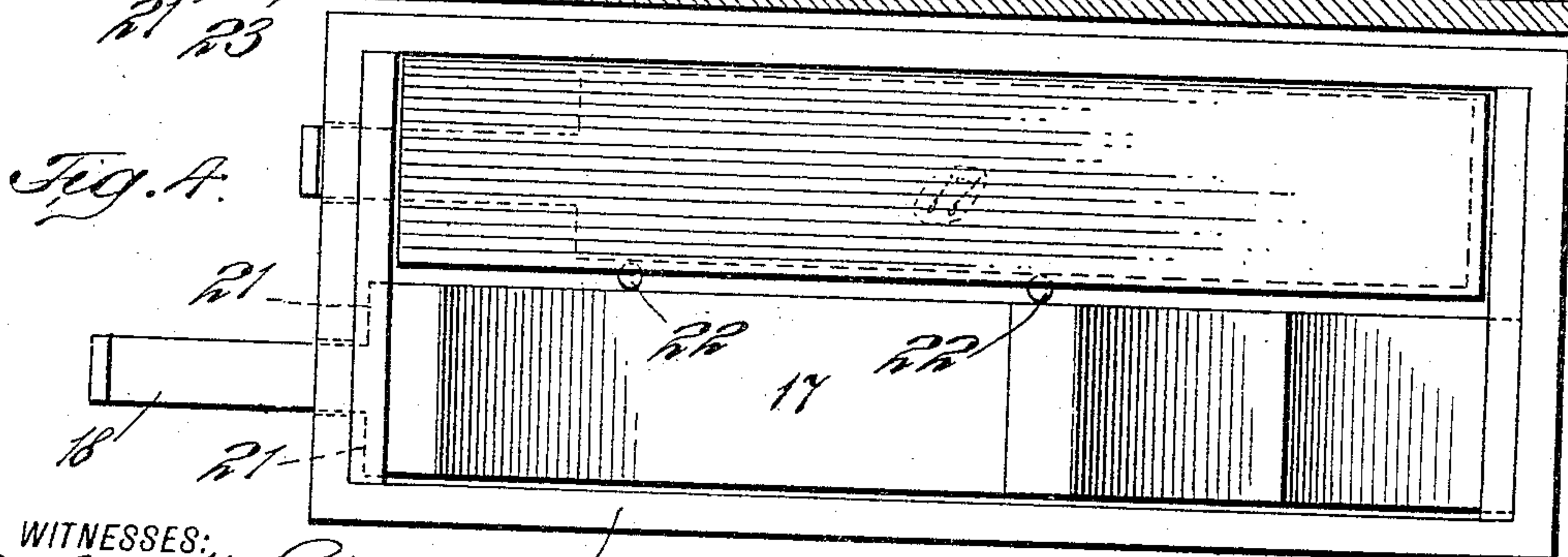
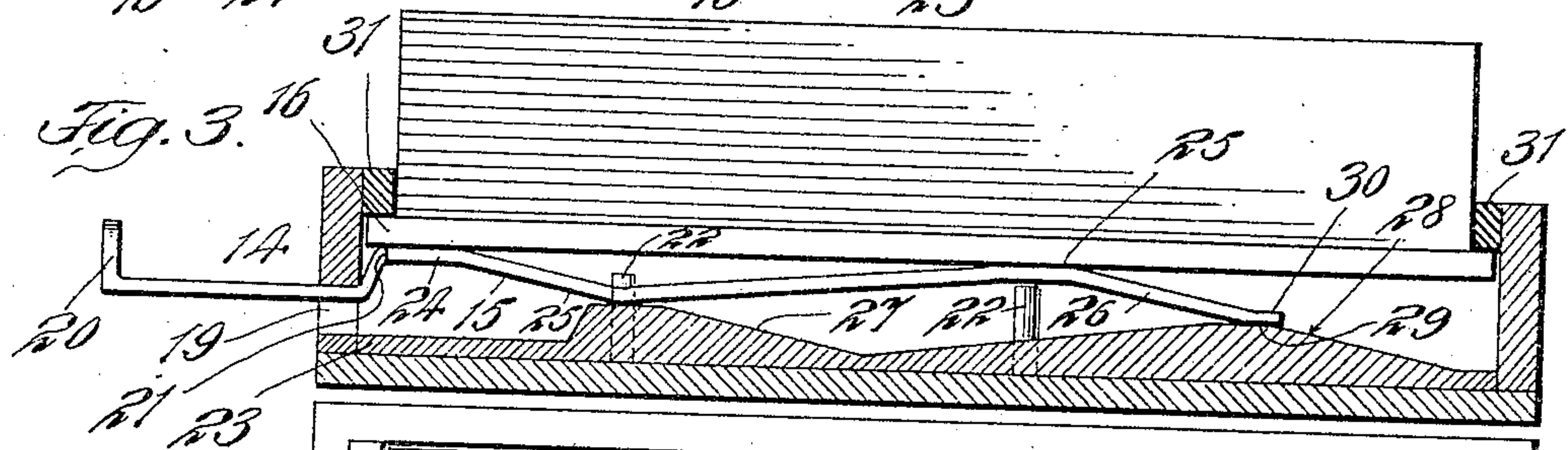
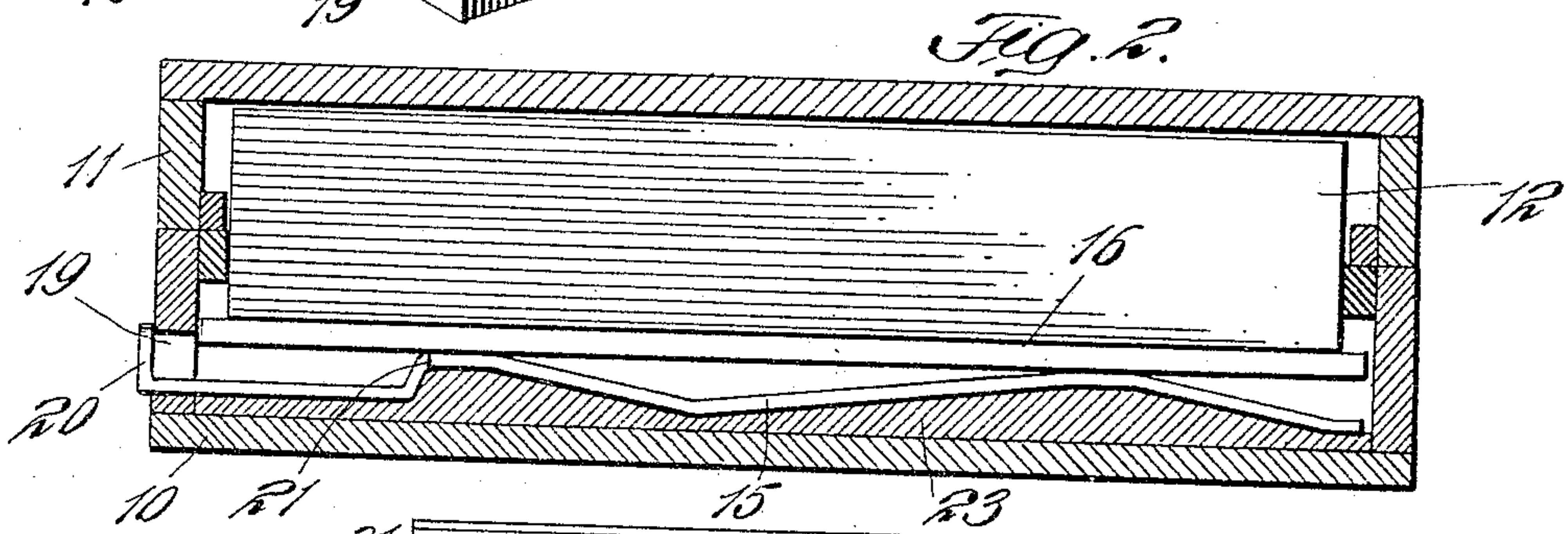
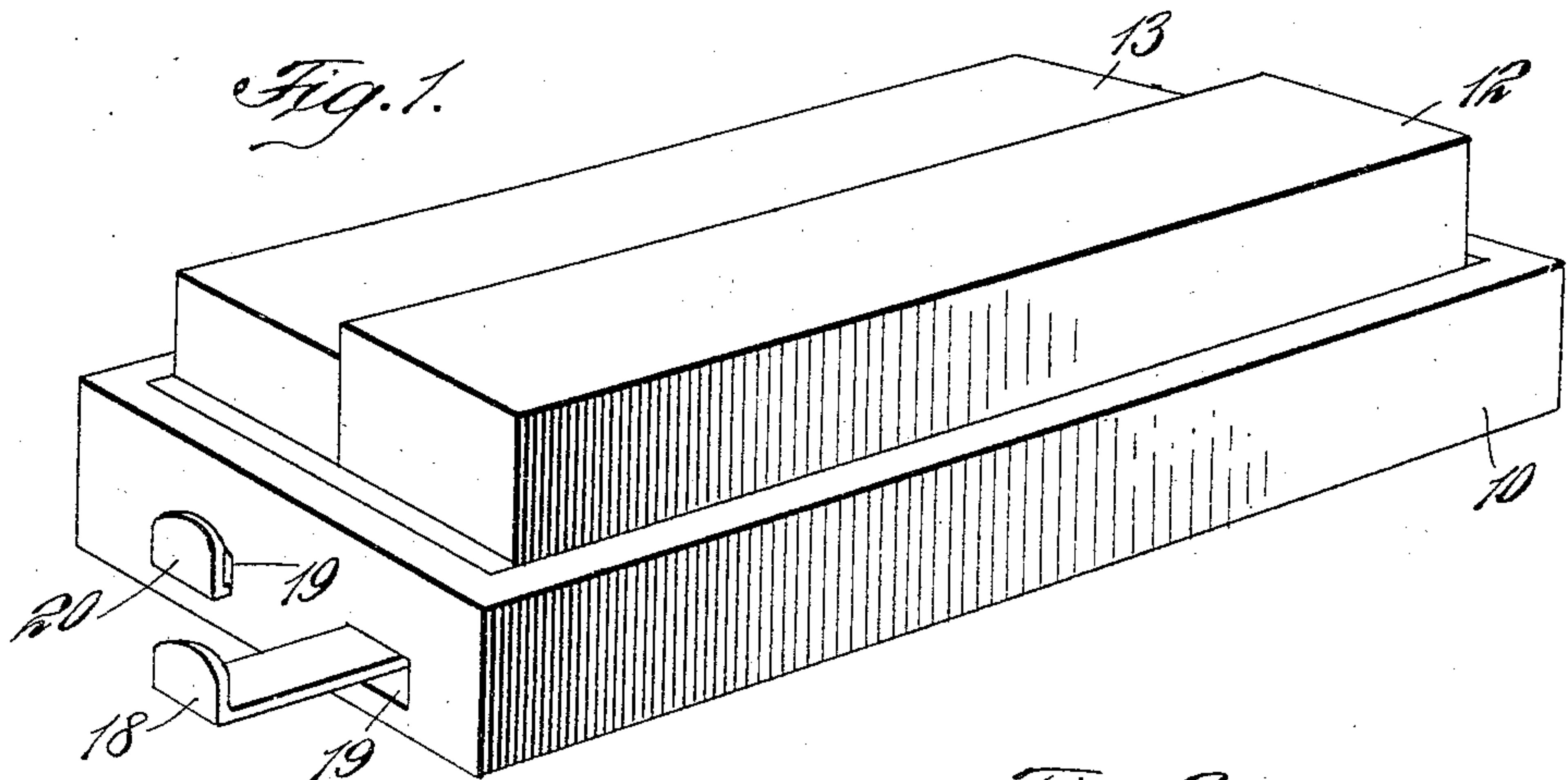


L. HAYNE & E. B. PIKE.
 HOLDER FOR OILSTONES.
 APPLICATION FILED OCT. 29, 1909.

955,265.

Patented Apr. 19, 1910.



WITNESSES:
Julius H. Metz.
W. Dinnhaupt

INVENTORS
Levi Hayne and
E. Bertram Pike
 BY
J. A. E. Criswell,
 ATTORNEY

UNITED STATES PATENT OFFICE.

LEVI HAYNE, OF SCHENECTADY, NEW YORK, AND EDWIN BERTRAM PIKE, OF PIKE,
NEW HAMPSHIRE.

HOLDER FOR OILSTONES.

955,265.

Specification of Letters Patent.

Patented Apr. 19, 1910.

Application filed October 29, 1909. Serial No. 525,400.

To all whom it may concern:

Be it known that we, LEVI HAYNE and EDWIN BERTRAM PIKE, citizens of the United States, and residents of Schenectady, county of Schenectady, and State of New York, and Pike, county of Grafton, and State of New Hampshire, respectively, have invented certain new and useful Improvements in Holders for Oilstones, of which the following is a full, clear, and exact description.

This invention relates more particularly to a device in which a plurality of abrasive bodies or members may be held to have a relative movement with respect to each other.

The primary object of the invention is to provide a simple and efficient device for supporting a plurality of oil stones or abrasive members in such manner that the surface of one member may be raised above the other, so as to present grinding surfaces of different degrees of fineness, the arrangement being such that when one member is brought into use the surface of the other member will be entirely out of alinement with said member, thereby preventing the tool to be sharpened from coming in contact with but one stone at a time. In this manner the tool may be first sharpened on a coarser stone and then finished on a finer stone, the means for raising and lowering the stone being such that their surfaces are always parallel.

Another object of the invention is to provide a simple and efficient holder and means therein whereby a plurality of oil stones or other grinding elements may be elevated independently of each other, for separate use, and both brought to the same level in order that the said holder and stones may be properly inclosed.

A further object of the invention is to provide a simple and efficient device which may be readily made and assembled and which may be used for various purposes.

With these and other objects in view, the invention will be hereinafter more particularly described with reference to the accompanying drawings, which form a part of this specification, and will then be pointed

out in the claims at the end of the description.

In the drawings, Figure 1 is a detail perspective view of one form of device embodying our invention with the lid or cover removed, and showing one of the grinding elements or members in an elevated position. Fig. 2 is a longitudinal section, showing the parts in their normal lowered position. Fig. 3 is a view similar to Fig. 2 except that one of the stone members is shown in an elevated position; and Fig. 4 is a plan view of the holder and elevating means, the stones and one of the supporting plates or parts being removed.

The casing 10 may be of a box-like form or of any other suitable construction to which may be fitted a lid or cover 11 in any desired way. Held in said casing or holder 10 are a plurality of grinding or abrasive members 12 and 13. As shown there are two stone members but this number may vary and one stone member may be of a coarse quality in order to grind the edge of a tool quickly and the other member, as 13, may be of a finer quality for finishing purposes. The character or nature of the stone, whether oil or otherwise, varying according to the use to which it may be put.

To permit one grinding body or member to be moved relatively to the other in order that the tool may be passed over the surface of either member without engaging the surface of the other, we provide suitable mechanism 14. This mechanism may be of any suitable construction and may comprise a slide or device 15, one for each grinding element and so arranged that when moved lengthwise of the casing or holder 10, it will be elevated and impart a corresponding movement to the grinding element located above the same. A plate or bar 16 is arranged under each grinding member to support the same throughout its entire length and said bar of each grinding element normally rests upon the surface of the slide and in such a way that it will serve as a firm support for the grinding element in either its elevated or lowered position. The slides or devices 15 may be each in the form of

a bar having a body portion 17 substantially rectangular in form, the forward part of which is provided with a pull or handle 18 which projects outwardly through a slot 19 in the casing and has a part 20 to permit the hand to readily operate each slide, the said part 18 being narrower than the body portion 17 in order to provide shoulders 21 to limit the outward movement of said slides. These slides may be narrower than the grinding elements and also the supporting bars or members 16 in order that they may be guided in a vertical movement by pins 22 projecting upward from the base 23 of the casing 10 and said pins may be employed to guide the supporting member 16 also if desired. The slides 15 are each provided with horizontal parts 24 and 25 to engage the under surface of the supporting bar 16 located above the same and said devices or slides have downwardly inclined cam parts 25^a and 26 which are adapted to ride on the cams or inclined parts 27 and 28, respectively, of the bottom of the casing 10. The bottom or base 10 may be variously formed instead of in the manner shown and may have straight supporting surfaces 29 for the parts 30 of each slide to rest and be seated thereon when the grinding element is in an elevated position. When in an elevated position the ends of the supporting bars or members 16 are adapted to engage under cleats or transverse strips 31 forming a part of the casing and which serve to limit the upward movement of the said supporting bars.

As will be seen, if it is desired to use the element 12 for example, the slide under the same will be forced outward by the handle portion 18 as shown in Figs. 1 and 3, and this will cause the cam surfaces 25 and 26 to ride upon the inclined parts 27 and 28, respectively, of the casing or holder so as to raise the supporting bar 16 and grinding element resting thereon. After the tool or instrument has been sharpened on this member, the said member may be lowered and the member 13 likewise elevated for finishing the grinding or sharpening of the tool and when the device is not in use both stones may be lowered as shown in Fig. 2 and the cover placed thereon.

From the foregoing it will be seen that a simple and efficient device is provided in which a holder may support a plurality of grinding elements in such a way that they may have a relative movement to permit a tool to be sharpened on one member without interfering or engaging the surface of the other; that simple means is provided whereby the grinding elements may be raised or lowered; that said grinding elements will each be positively and properly held in

either its elevated or lowered position and that said device is simple and compact in construction and may be readily made and assembled.

Having thus described our invention, we claim as new and desire to secure by Letters Patent:—

1. A device of the character described, comprising a holder, a plurality of grinding elements, each bodily and independently movable in parallel relation with the other element.

2. A device of the character described, comprising a holder, a plurality of grinding elements, and means for independently and bodily raising and lowering each element as a whole.

3. A device of the character described, comprising a holder, a plurality of grinding elements, and cam means for imparting a straight line movement to each element.

4. A device of the character described, comprising a holder, a plurality of grinding elements, and means for imparting vertical movement to each element, the base of each element being substantially parallel with the base of the holder during said movement.

5. A device of the character described, comprising a holder, a plurality of grinding elements, and means for imparting a straight line movement to each element independent of the other.

6. A device of the character described, comprising a substantially box-like casing, a plurality of grinding elements movable therein, a supporting bar for each element, a longitudinally movable slide for each bar and on which the latter rests and means whereby the supporting bar may be given a vertical movement as the slide is moved longitudinally in the casing.

7. A device of the character described, comprising a substantially box-like casing, a plurality of grinding elements movable therein, a longitudinally movable slide for each element and means whereby the slide may be given a vertical movement as the same is moved longitudinally in the casing.

8. A device of the character described, comprising a substantially box-like casing, a plurality of grinding elements movable therein, a supporting bar for each element, a slide for each bar on which the latter rests, means whereby the slide may be given a vertical movement as the same is moved longitudinally in the casing, and means to limit the vertical movement of the supporting bars.

9. A device of the character described, comprising a box-like casing having a bottom provided with cam surfaces, a plurality of independently movable bar-like slides having cam and supporting surfaces formed

as a part thereof and having a handle portion projecting outward through the casing by which the slide may be moved, and a grinding element adapted to move vertically when the slide is moved longitudinally of the casing.

10. A device of the character described, comprising a box-like casing having a bottom provided with cam surfaces, a plurality of independently movable bar-like slides having a handle portion projecting outward through the casing by which the slide may be moved, a supporting bar for each slide adapted to rest upon the same, pins for guiding the slides, said casing having means to limit the upward movement of the supporting bars and a grinding element nor-

mally resting on each supporting bar and adapted to move therewith when the slide is moved longitudinally of the casing. 20

In testimony whereof I hereunto affix my signature in the presence of two witnesses this 22nd day of October, 1909.

LEVI HAYNE.

Witnesses:

G. HAROLD MERRY,

CHARLES N. WART.

In testimony whereof I hereunto affix my signature in the presence of two witnesses this 25th day of October, 1909.

EDWIN BERTRAM PIKE.

Witnesses:

EARLE BLACK,

WM. S. UDALL.