

No. 675,266.

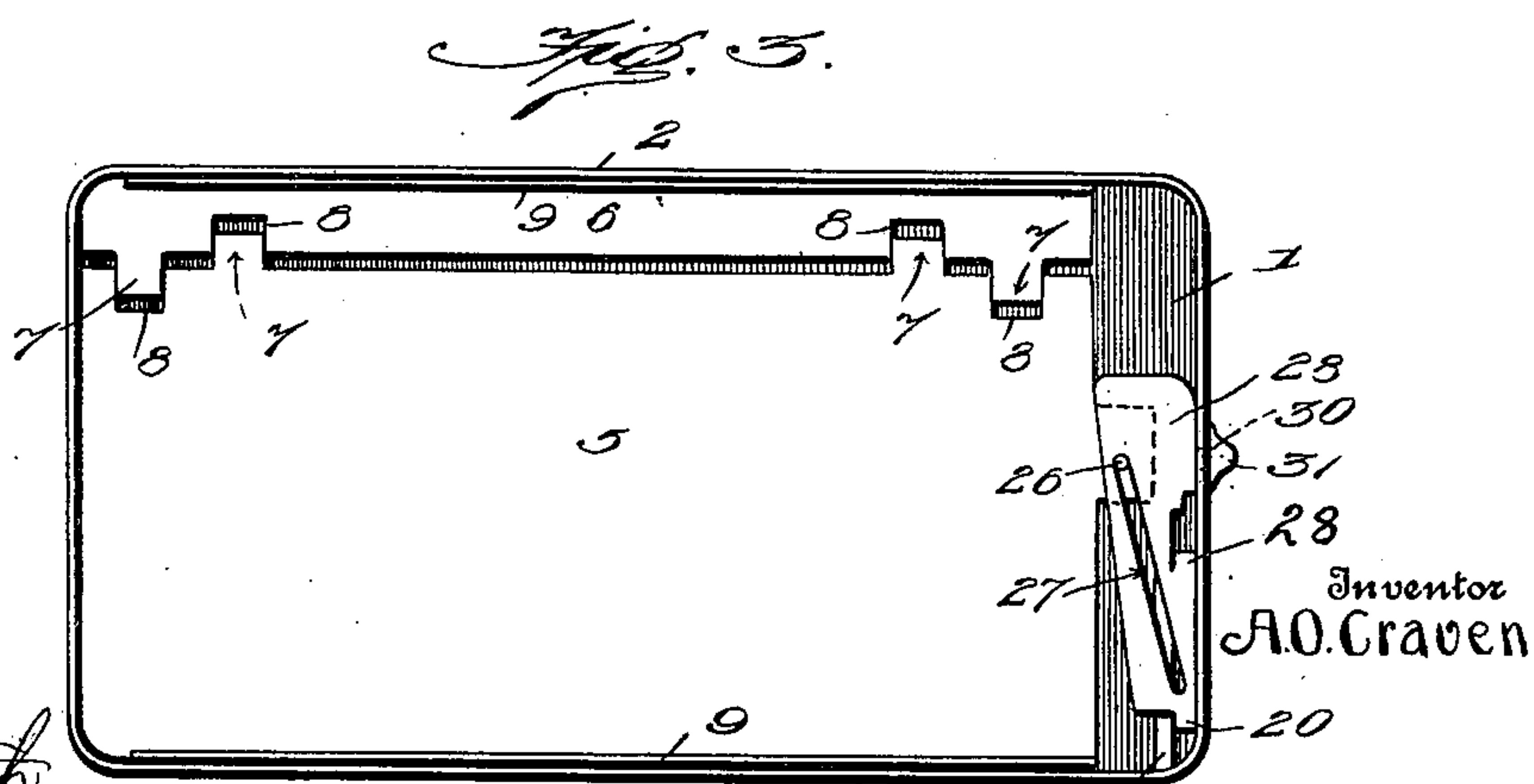
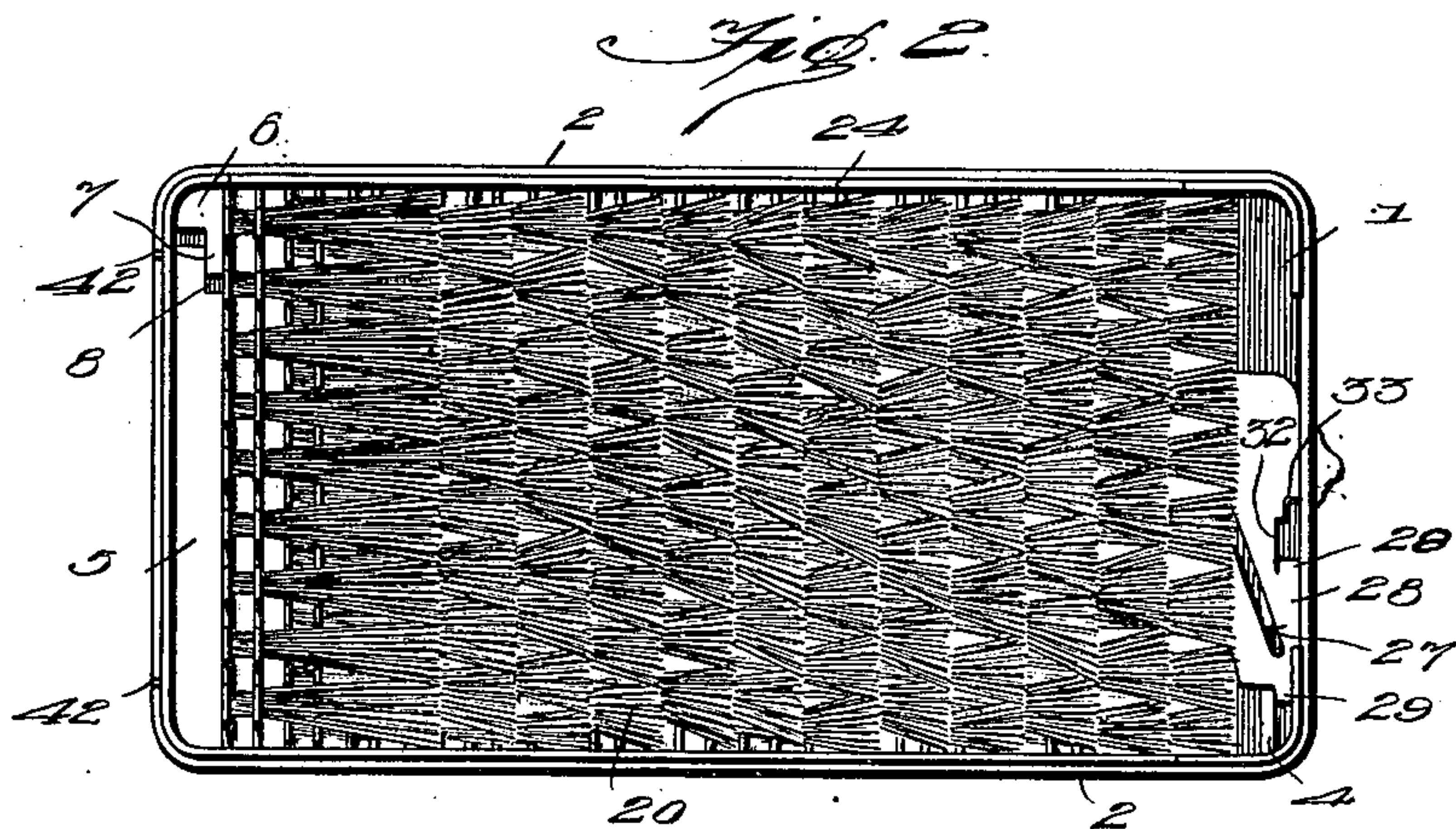
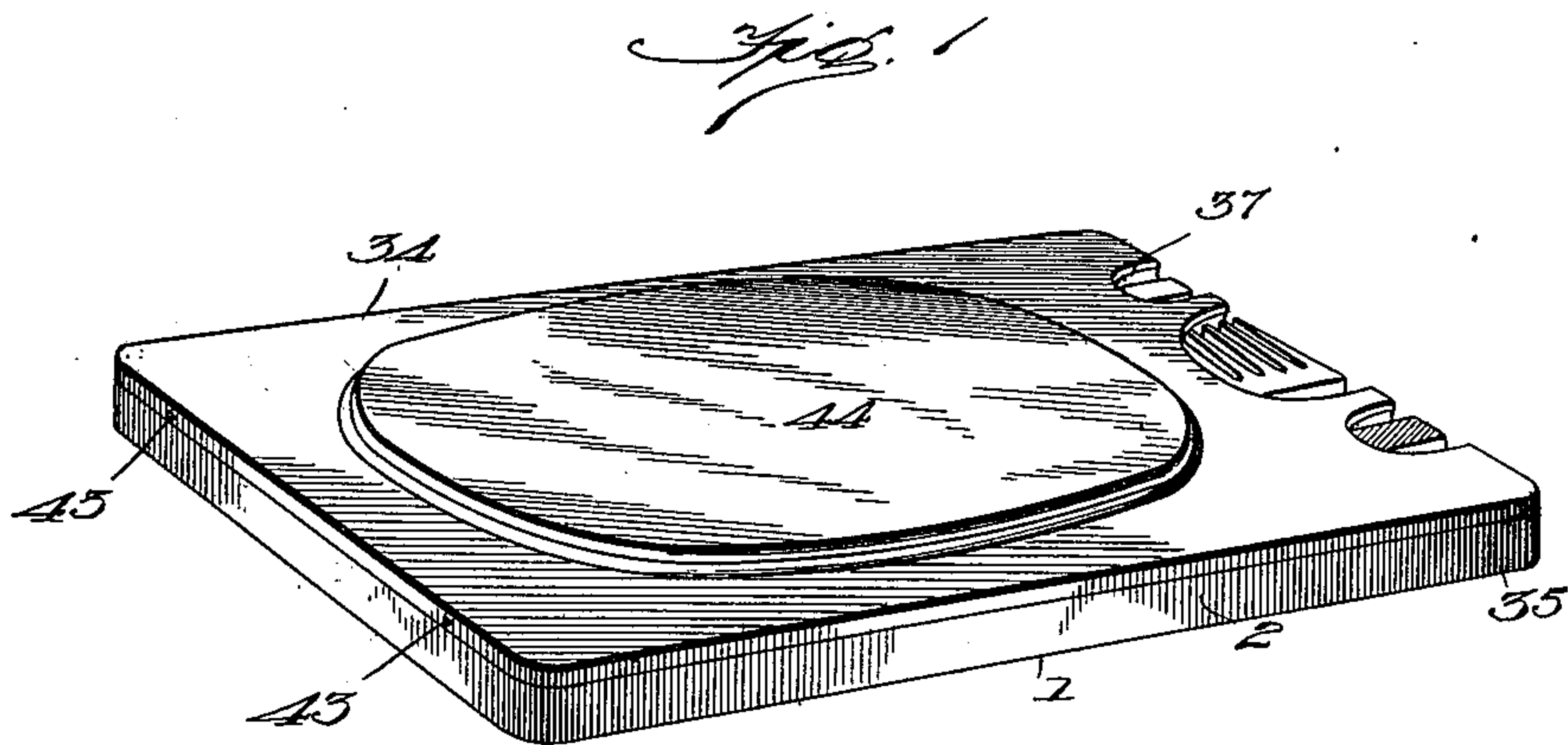
Patented May 28, 1901.

A. O. CRAVEN.
FOLDING BRUSH.

(Application filed Nov. 10, 1900.)

(No Model.)

3 Sheets—Sheet 1.



Witnesses
Am. North
Hubert D. Larson

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A.O. Craven

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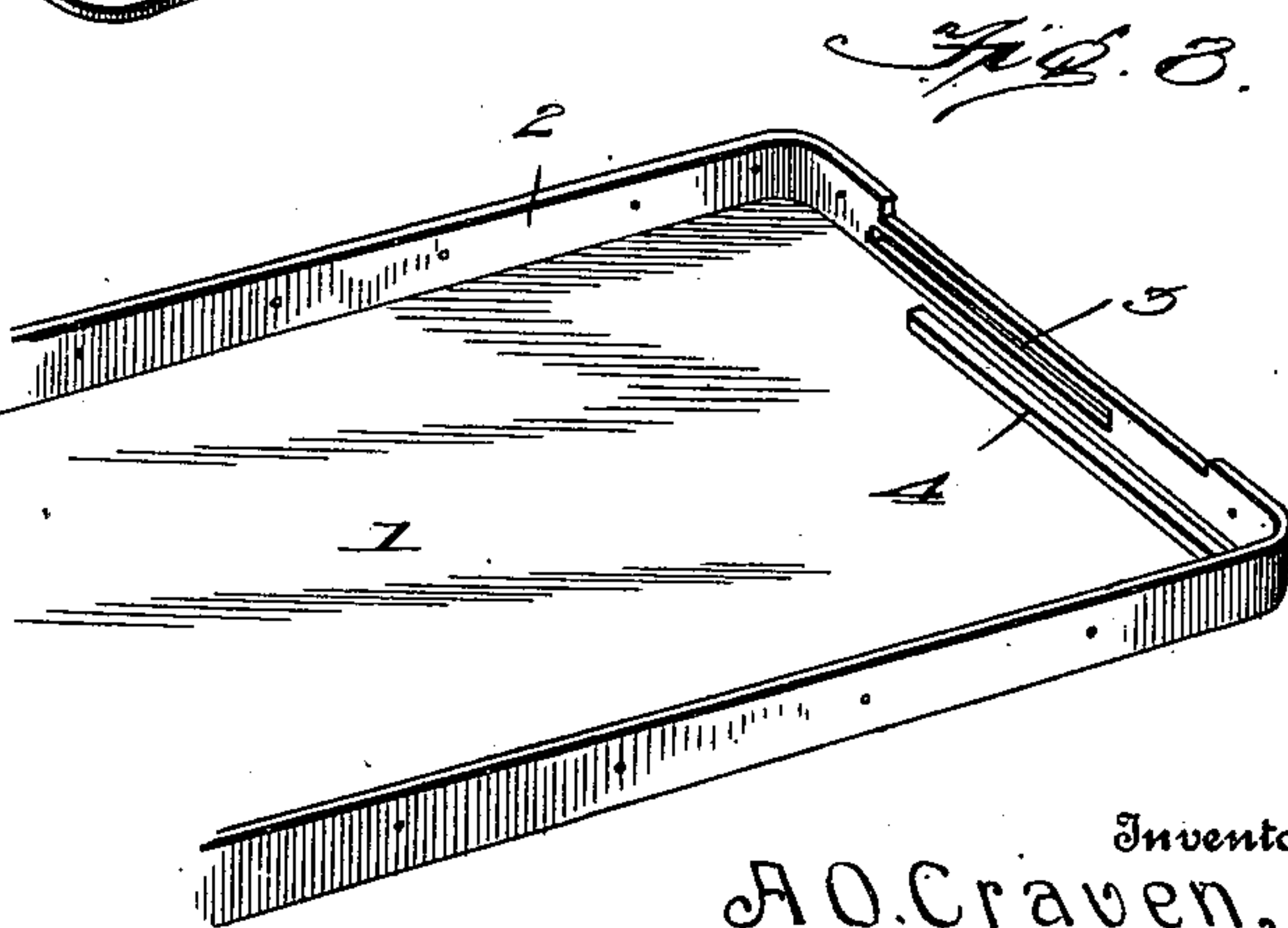
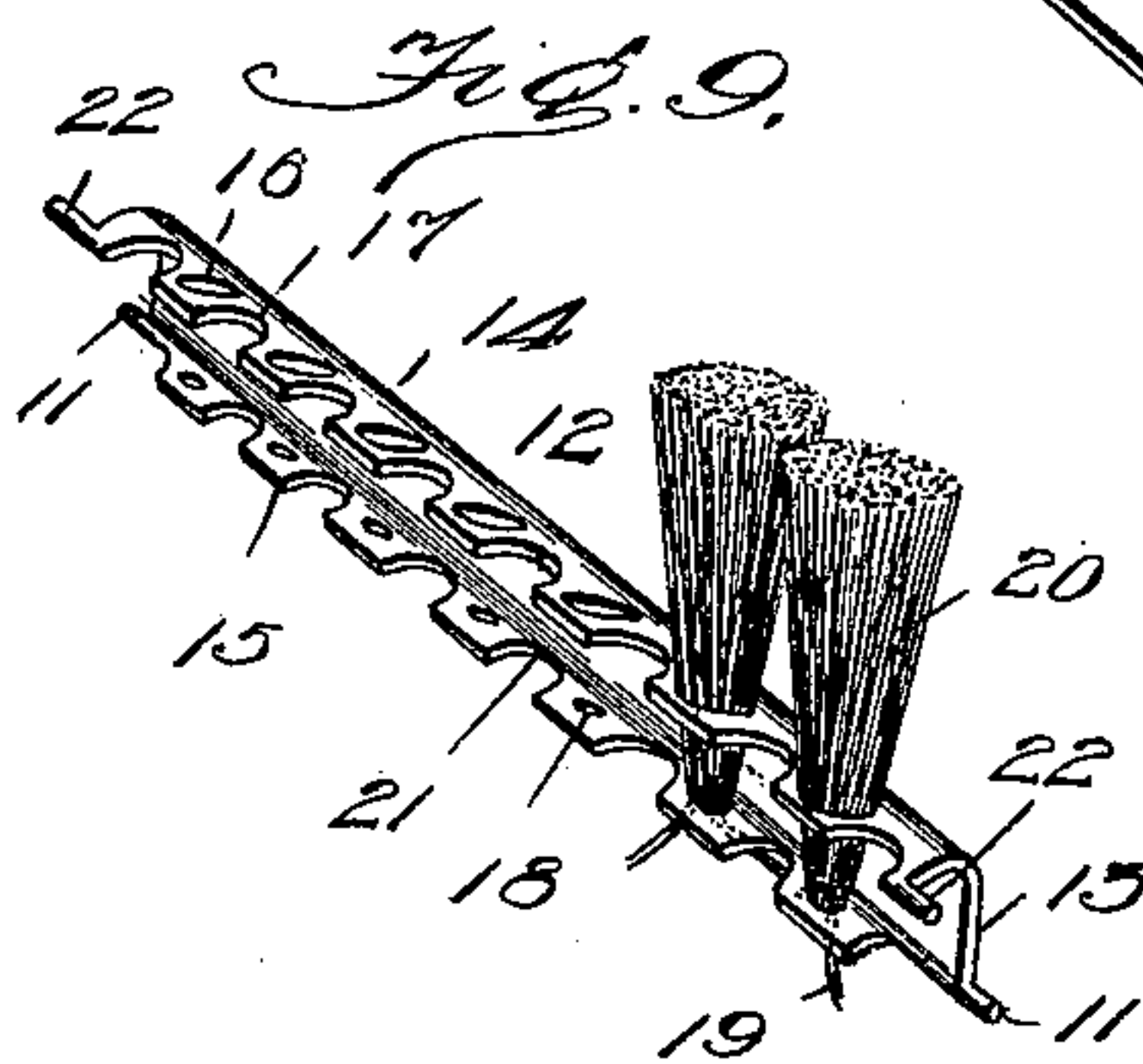
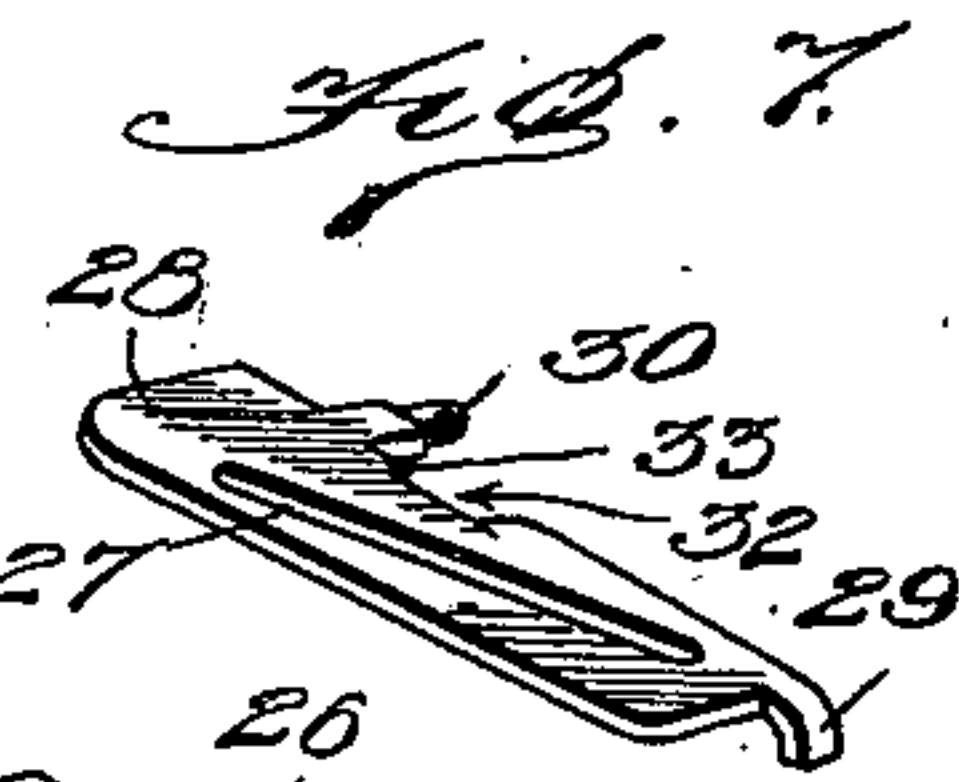
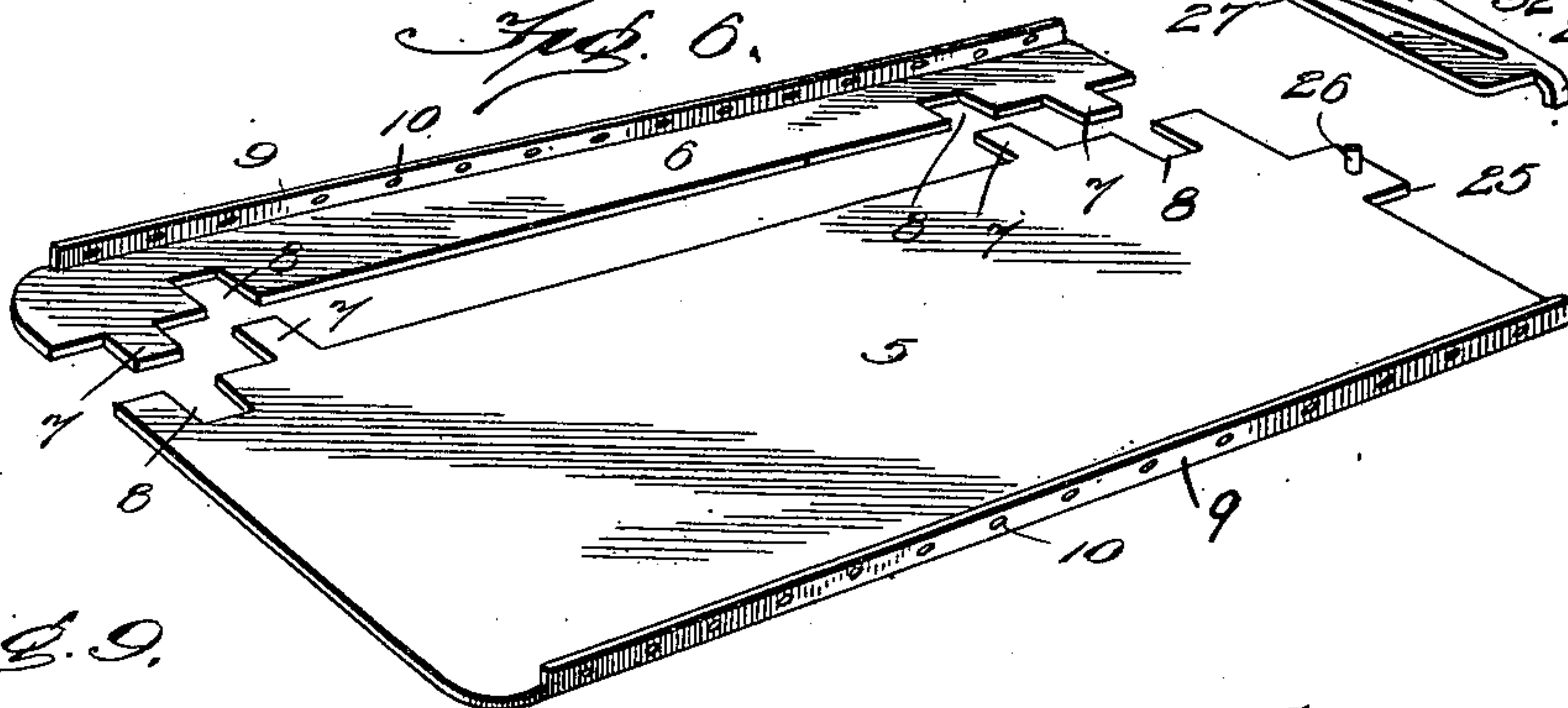
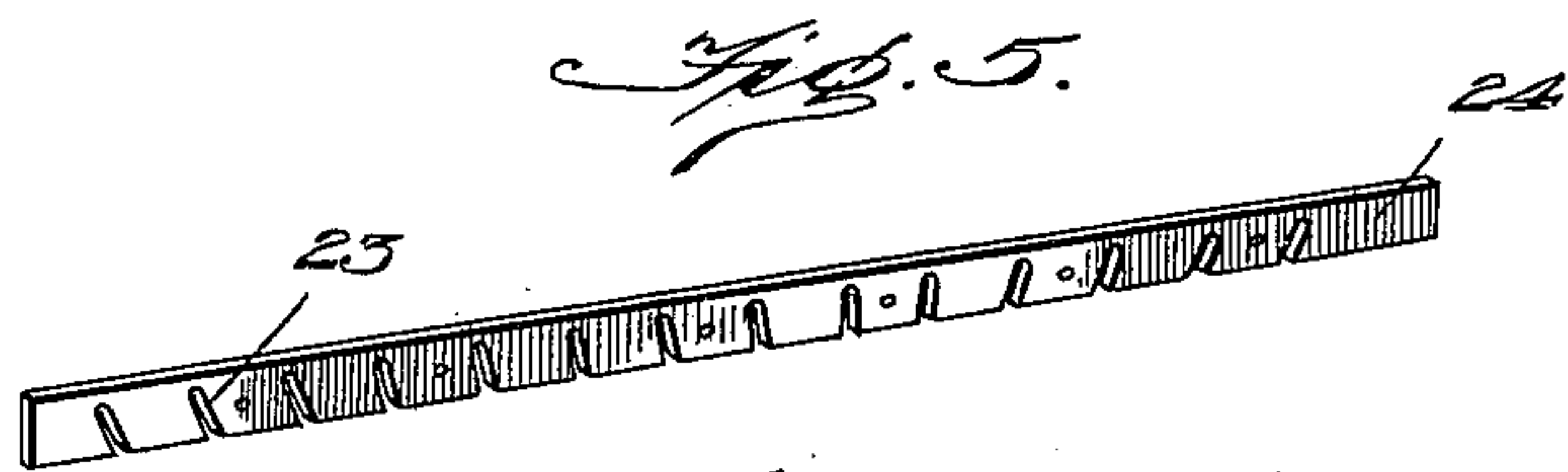
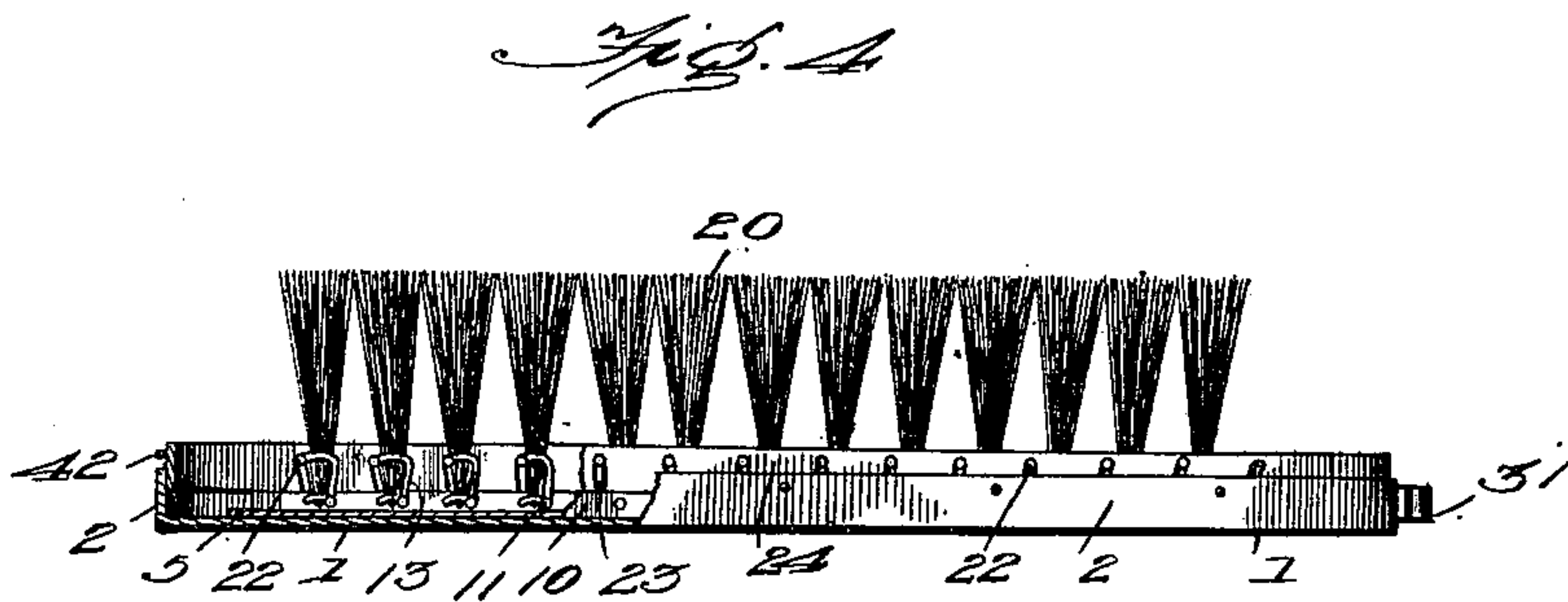
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3 Sheets—Sheet 2



Witnesses

Witnesses
1915
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(No Model.)

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3 Sheets—Sheet 3.

Fig. 11.

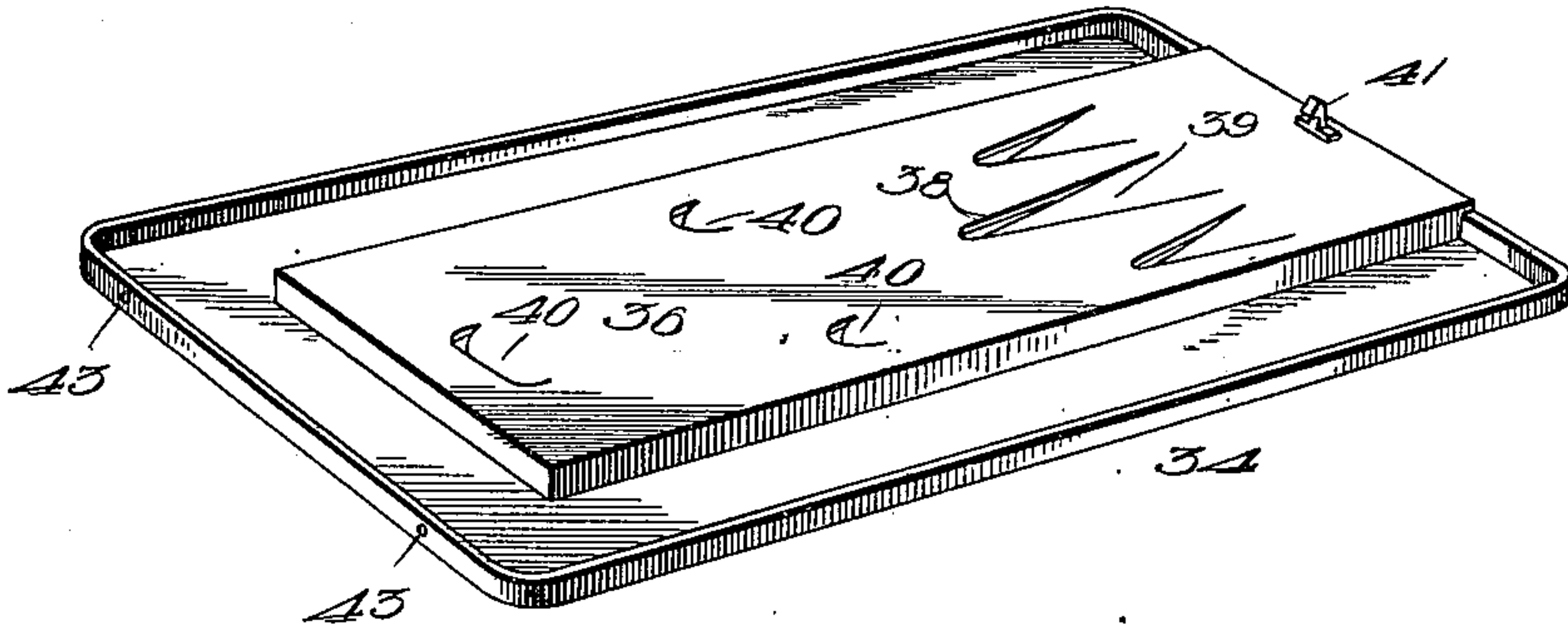


Fig. 12.

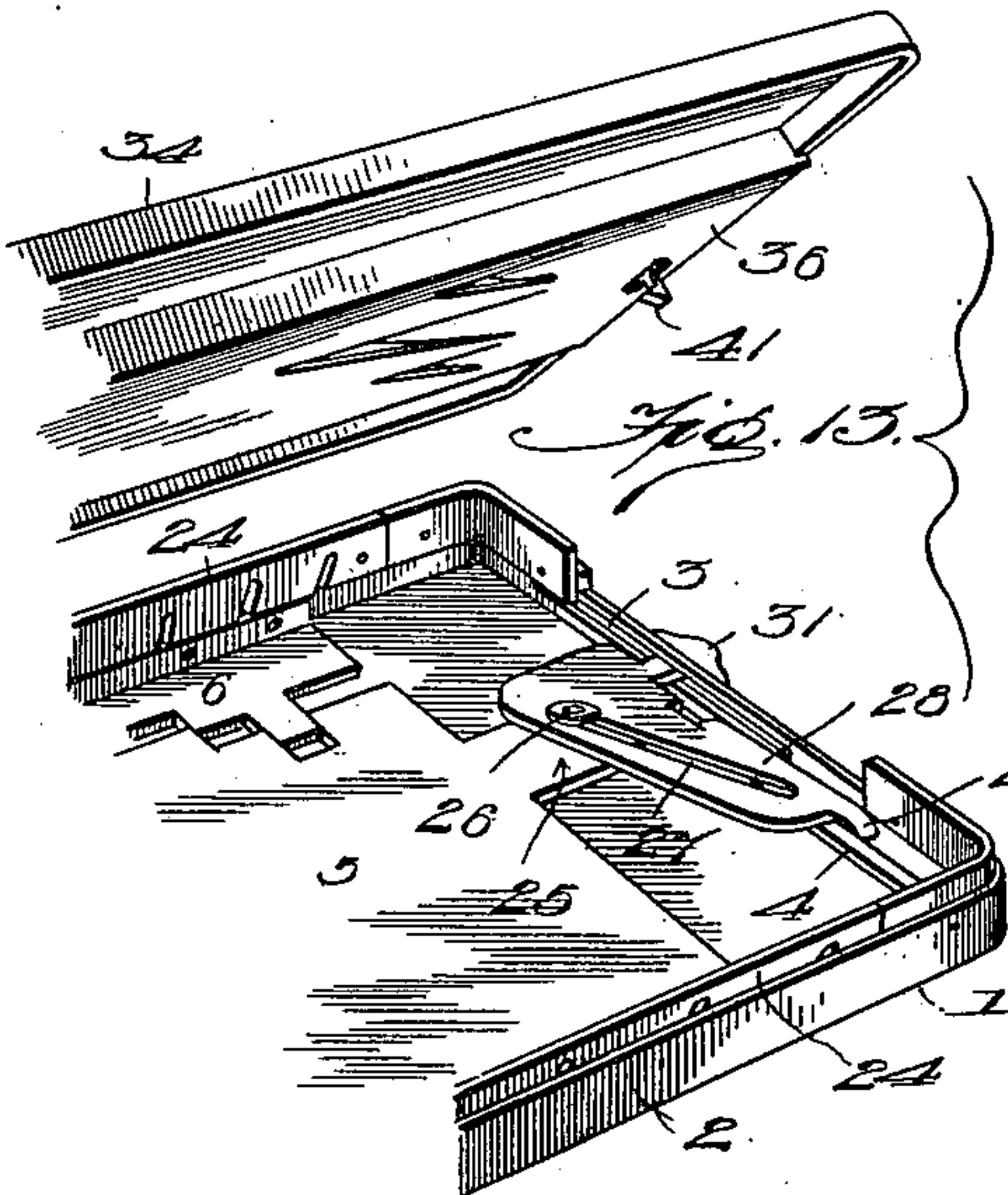
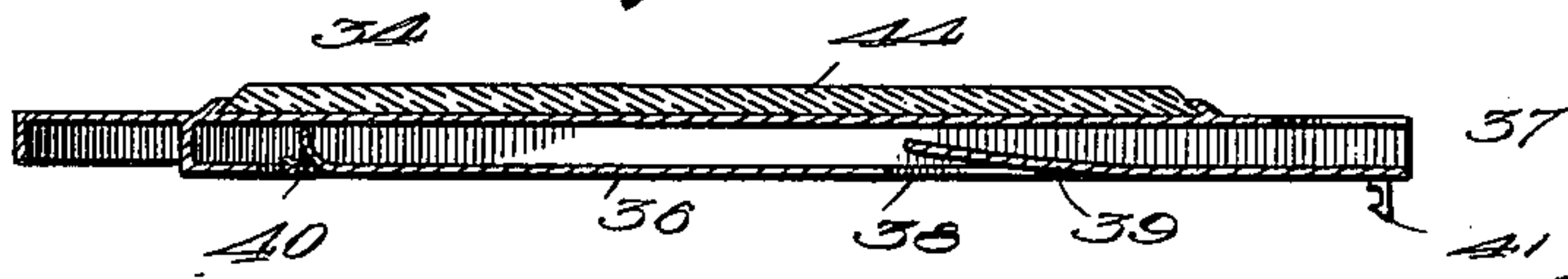


Fig. 14.

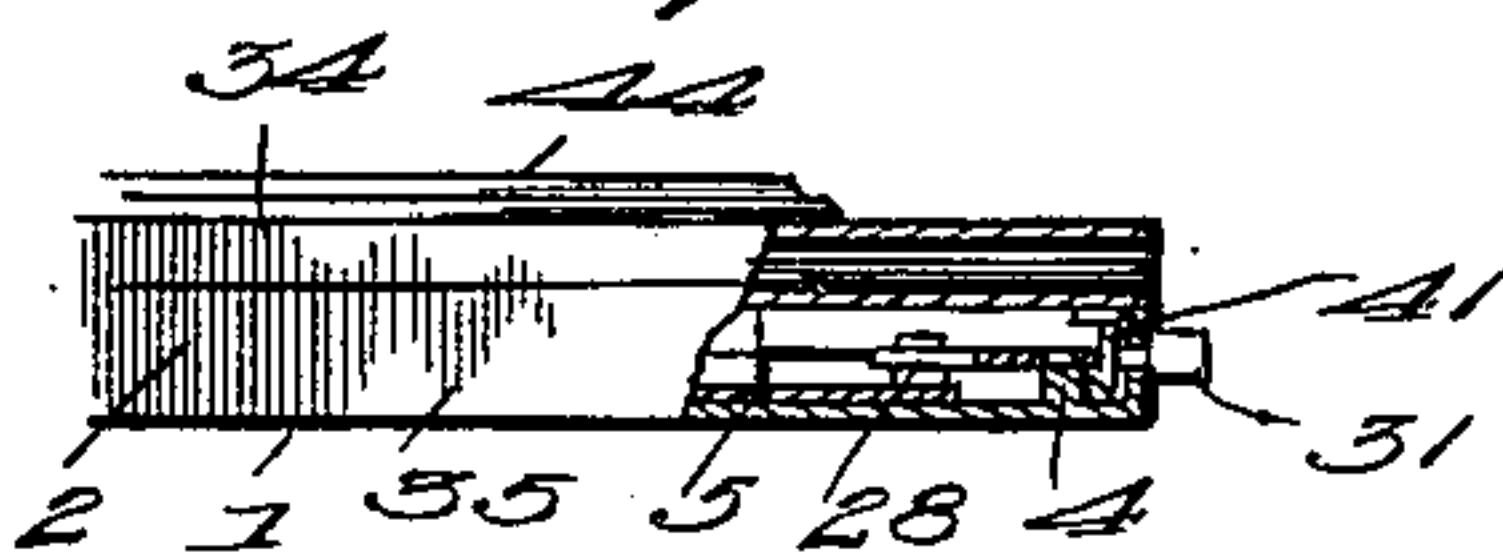
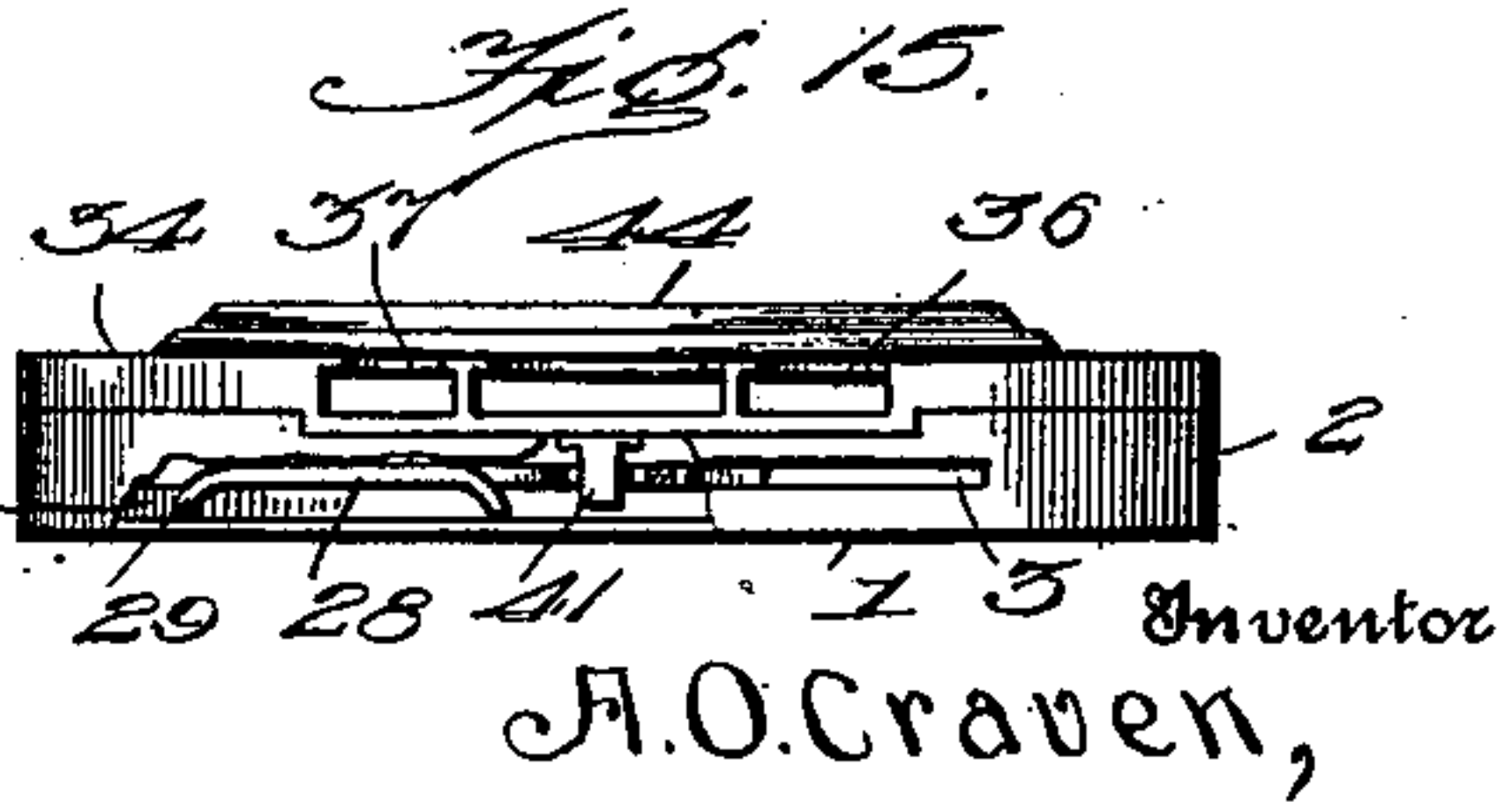


Fig. 15.



Witnesses

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UNITED STATES PATENT OFFICE.

AUSTIN O. CRAVEN, OF LOUISA, KENTUCKY.

FOLDING BRUSH.

SPECIFICATION forming part of Letters Patent No. 675,266, dated May 28, 1901.

Application filed November 10, 1900. Serial No. 36,092. (No model.)

To all whom it may concern:

Be it known that I, AUSTIN O. CRAVEN, a citizen of the United States, residing at Louisa, in the county of Lawrence and State of Kentucky, have invented new and useful Improvements in Folding Brushes, of which the following is a specification.

This invention relates to new and useful improvements in folding brushes; and its primary object is to provide a device of this character the bristles of which may be readily swung downward and which is provided with a cover adapted to fit thereover and provided with suitably-disposed receptacles adapted to receive a comb and similar articles.

A further object is to so construct the device that the tufts of bristles may be readily placed in position and secured therein.

Another object is to provide means whereby the bristles may be readily swung upon pivots.

With these and other objects in view the invention consists in providing a box-like base, upon which is fitted a plate formed in two sections and having flanges at the sides thereof. Within these flanges are journaled the ends of cross-strips, to each of which is secured a series of tufts of bristles. Slotted strips are secured to the inner face of each of the sides of the base and are adapted to engage the ends of the cross-strips, and means are provided whereby the plate may be slid back and forth upon the base, thereby causing the bristles to swing up or down, as desired. A cover is adapted to be secured upon the base, and recesses are formed therein for the reception of a comb or other article. A catch extends downward from this cover and is adapted to engage a slide mounted upon the base, said slide also serving to operate the bristles.

The invention also consists in securing the tufts to their cross-strips in a novel manner, said tufts being detachable from the strips when desired, as in case of wear, &c.

The invention also consists in the further novel construction and combination of parts, which will be hereinafter fully described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is a perspective view. Fig. 2 is a plan view of the device with the cover removed. Fig. 3 is a plan view of the base, showing the plate in position thereon and the bristles and their cross-strips removed. Fig. 4 is a side elevation of the device with the cover removed and the bristles in raised or operative position, part of the base being broken away. Fig. 5 is a detail view of a slotted strip. Fig. 6 is a similar view of the folding plate. Fig. 7 is a perspective view of the operating-slide. Fig. 8 is a similar view of a portion of the base. Fig. 9 is a perspective view of a cross-strip. Fig. 10 is a section therethrough, showing the manner of securing the bristles in position. Fig. 11 is a bottom perspective view of the cover. Fig. 12 is a longitudinal section therethrough. Fig. 13 is a perspective view of a portion of the base, showing the holder-plate, the sliding strip, and the slotted strip in position therein, the cover being arranged at a point above the base. Fig. 14 is a section through one end of the device with the cover in position thereon. Fig. 15 is an end view thereof with the base partly broken away to show the sliding strip and the catch in elevation.

Referring to the figures by numerals of reference, 1 is a preferably rectangular base, having a flange 2 therearound, that portion of the flange which is arranged at one end of the base being provided with a longitudinally-extending slot 3. A guide-strip 4 is secured upon the base parallel and adjacent to the slot 3 and is for a purpose hereinafter more fully described. The holder-plate is adapted to rest upon the base 1, between the flanges 2 thereof, and this plate is preferably formed of two sections 5 and 6, respectively, which are provided upon their adjacent edges with tongues 7, adapted to extend into opposite recesses 8. It is obvious that when these tongues are in engagement with the recesses the sections 5 and 6 of the holder-plate cannot be moved in opposite directions longitudinally, but are free to be moved from and toward each other. A flange 9 is formed at the outer edge of each of the sections 5 and 6, and each flange is provided with a series of perforations 10, adapted to receive studs 11, extending from the ends of tuft-holders

12, at the lower edges thereof. Each of these tuft-holders is preferably formed in one piece of metal, comprising a body 13 and parallel flanges 14 and 15, respectively arranged at opposite edges of said body. Within the upper flanges 14 at regular intervals are formed apertures 16, and said flanges are cut away, as at 17, at points between the apertures, for a purpose hereinafter more fully described.

The lower flanges 15 of the strips 12 are also provided with perforations 18 in vertical alinement with the apertures 16; but these perforations 18 are smaller in diameter than the upper perforations and are merely of sufficient size to admit a wire 19, which is adapted to pass through the loop formed at the inner end of a tuft of bristles 20. One tuft is adapted to be inserted into each aperture 16, the lower or rounded end thereof bearing upon the perforations 18 in alinement with said aperture. As above stated, a wire is then inserted through each of said perforations and is passed through the tuft and thence back through said perforations and into engagement with the adjacent tuft, as is clearly illustrated in Figs. 9 and 10 of the drawings. The flange 15 is also cut away, as at 21, at points in vertical alinement with the recesses 17. Stud 22, similar to the studs 11, are arranged at the ends of the strips 12 in alinement with the edges of the upper flanges 14, and these studs are adapted to extend over the flanges 9 of the holder-plate and project into transverse slots 23, extending upward from the lower edges of the strips 24. These strips are adapted to be secured to the side flanges 2 of the base 1 above the flanges 9 of the holder-plate. It is obvious that it will then be impossible to remove the strips 12 from the base 1, as the holder-plate is held securely in position by the slotted strips 24, which engage the studs 22. A tongue 25 extends from the forward edge of the section 5 of the holder-plate and is provided with a stud 26, which projects into an inclined slot 27, formed within a sliding strip or plate 28. This plate bears upon the tongue 25, before referred to, and upon the guide-strip heretofore referred to, and extensions 29 are provided at points adjacent to the front edge of said plate and are adapted to lie between the guide-strip 4 and the front flange of the base 1. It is obvious that these extensions will prevent the plate 28 from sliding in any direction except in a line parallel to the guide 4. A threaded stud 30 extends laterally from the sliding plate 28 and is adapted to project through the slot 3 within the front flange of the base, and a suitable knob 31 is secured thereto, whereby the plate can be readily moved from side to side. A recess 32 is formed within the front edge of the sliding plate 28, and a shoulder 33 is arranged therein for a purpose hereinafter more fully described.

The cover 34 used with this device is provided with downwardly-extending flanges 35 at the edges thereof, which are adapted to

extend over the upper edges of the slotted strips 24.

A receptacle 36, preferably rectangular in form, is secured to the lower surface of the top 34 and is divided by means of partitions into any desired number of compartments. The top 34 is cut away at the front edge, as shown at 37, at points over the outer ends of the compartments within the receptacle 36, and these recesses or cut-away portions permit a finger to be readily brought into contact with a comb or other article which may be in position within the compartment.

In order that the articles may be prevented from accidentally slipping from position within their compartments, the lower surface of the receptacle is preferably slit, as at 38, forming springs 39, which are adapted to bear upon the articles and hold them in position. If desired, lugs 40 are struck in from the lower face of the receptacle 36, so as to limit the inward movement of the articles placed within the compartments. A rigid hook or catch 41 extends downward from the lower face of the receptacle 36 and is adapted when the cover is placed in position to lie within the recesses 32, formed within the front edge of the sliding plate 28. When said plate is slid in one direction, however, the shoulder 33 within the recesses 32 will move into position over the catch and firmly lock the same. The opposite end of the cover is preferably secured to the base by means of pins or studs 42, which extend laterally from the end flange of the base 1 and are adapted to project into apertures or perforations 43, formed within the end flange of the cover.

A mirror 44 is secured to the top of the cover in any suitable manner.

In assembling the parts the sections 5 and 6 of the holder-plate are separated, as shown in Fig. 6, and the cross-strips 12 are placed in position between the flanges 9. The lower stud 11 of said strips are then inserted into the apertures 10 of the flanges, leaving the upper studs 22 extending over the flanges 9. After the two sections 5 and 6 have been drawn together as closely as is permitted by the strips 12 the holder-plate is placed upon the base 1 between the flanges 2, and the slotted strips 24 are then placed in the position heretofore described, they being secured to the flanges 2 of the base in any suitable manner, as by means of screws. After the sliding plate 28 has been placed in engagement with the stud 26 the device is in condition for use. It will be understood that by sliding the plate 28 toward the small section 6 of the holder-plate the stud 26 will be drawn toward the guide-strip 4, thereby causing the entire holder-plate to slide upon the base. As the upper studs 22 of the cross-strips 12 are fixed within the slotted strips 24 it is obvious that the forward movement of the holder-plate will cause the strips to swing upon their studs 22, thereby causing the tufts of bristles to move into an upright position. By revers-

ing the movement of the sliding plate 28 the bristles can be thrown down into the position shown in Fig. 2.

The recesses 17 and 21 within the cross-strips are so arranged as to receive the tufts of bristles of the adjacent strips when said bristles are in lowered position, as shown in Fig. 2.

In the foregoing description I have embodied the preferred form of my invention; but I do not wish to be understood as limiting myself thereto, as I am aware that modifications may be made therein without departing from the principle or sacrificing any of the advantages thereof, and I therefore reserve to myself the right to make such changes as fairly fall within the scope of my invention.

Having thus described the invention, what is claimed, and desired to be secured by Letters Patent, is—

1. The combination with a base; of flanges thereto, slotted strips secured to the flanges, a holder-plate slidably mounted upon the base and between the slotted strips, flanges to said plate, cross-strips, bristles secured to said strips, studs at opposite ends of the cross-strips journaled within the flanges of the holder-plate, studs at opposite ends of the strips engaging the slots in the slotted strips, and means for sliding the holder-plate whereby the cross-strips are swung upon their pivots.

2. The combination with a base having flanges thereto; of slotted strips secured to the flanges, a holder-plate formed in two sections and slidably mounted upon the base, tongues extending from the adjacent edges of the sections of the holder-plate and adapted to engage recesses within said sections, cross-strips, bristles secured thereto, studs at the ends of the cross-strips and journaled within the flanges of the holder-plate, studs at the ends of the strips engaging the slots in the slotted strips, a stud upon the holder-plate, a sliding plate having an inclined slot therein adapted to receive said stud, and guides for the sliding plate.

3. The combination with a base; of a sliding holder-plate therein, strips, bristles secured to the strips, studs at opposite ends of the strips journaled within the holder-plate, studs at opposite ends of the strips journaled upon the base, a stud upon the holder-plate, a guide-strip upon the base, a sliding plate having an inclined slot therein adapted to receive said stud, extensions to said sliding plate adapted to be guided by a guide-strip, and a stud extending from the plate and through the base whereby said plate may be slid in either direction.

4. The combination with a base having flanges at the edges thereof; of slotted strips secured to said flanges, a holder-plate, flanges thereto, cross-strips between the flanges, studs at the ends of said strips and journaled within the flanges of the holder-plate, studs at the ends of said strips and mounted within the slots of the slotted strips, a stud upon the holder-plate, a sliding plate having an inclined slot adapted to receive said stud, guides for the sliding plate, studs extending from one of the flanges of the base, a cover having apertures therein adapted to receive said studs, a hook secured to the cover and adapted to lie within the recess formed within an edge of the sliding plate, and a shoulder in said recess adapted to engage the hook when the plate is slid in one direction.

5. The combination with a base having flanges at the edges thereof; of slotted strips secured to the flanges, a holder-plate slidably mounted upon the base, flanges thereto, cross-strips between said flanges, studs at opposite ends of said strips journaled within the flanges of the holder-plate, studs extending from opposite ends of the strips and engaging the slots in the slotted strips, bristles secured to the cross-strips, a stud upon the holder-plate, a sliding plate having an inclined slot therein adapted to receive said stud, guides for the plate, a stud to said plate extending through a slot in one of the flanges of the base, whereby said plate may be slid in either direction, studs extending from one of the flanges of the base, a cover having perforations therein adapted to receive said studs, compartments within said cover, springs extending into each compartment, a hook secured to the cover and adapted to lie within a recess within one of the edges of the sliding plate, and a shoulder within said recess adapted to engage the hook when the plate is slid in one direction.

6. The combination with a body portion; of flanges extending from opposite edges thereof and having apertures therein in alignment with each other, recesses within the flanges and between the apertures, a tuft of bristles fitted within one aperture in one of the flanges, a wire extending through one of the apertures in the remaining flange and adapted to engage said tuft, and studs extending from the ends of the body portion in alignment with the edges thereof.

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

AUSTIN O. CRAVEN.

• Witnesses:

E. S. FERGUSON,
H. C. SULLIVAN.