

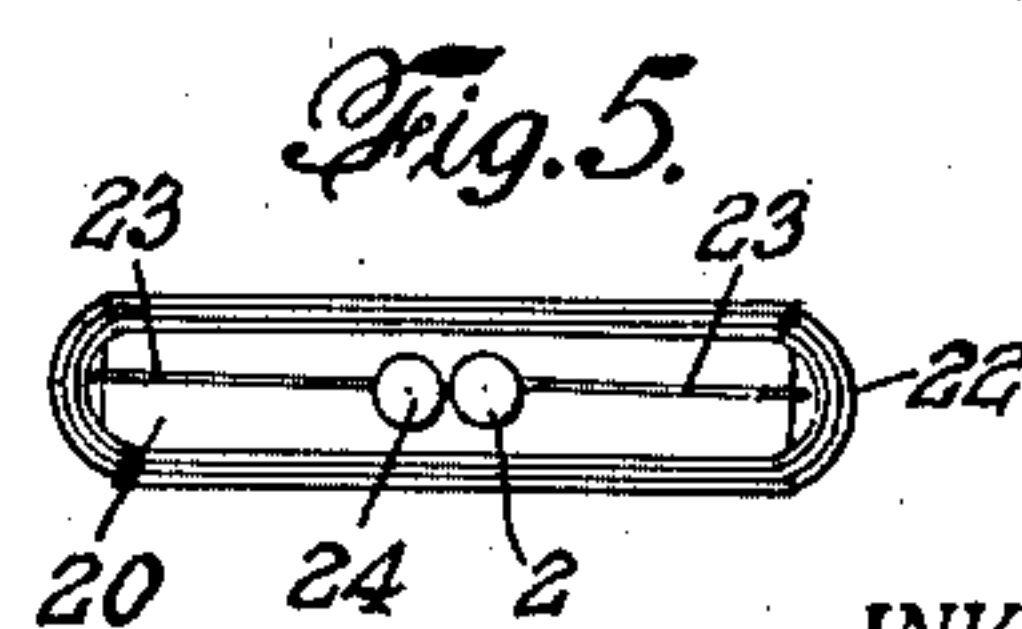
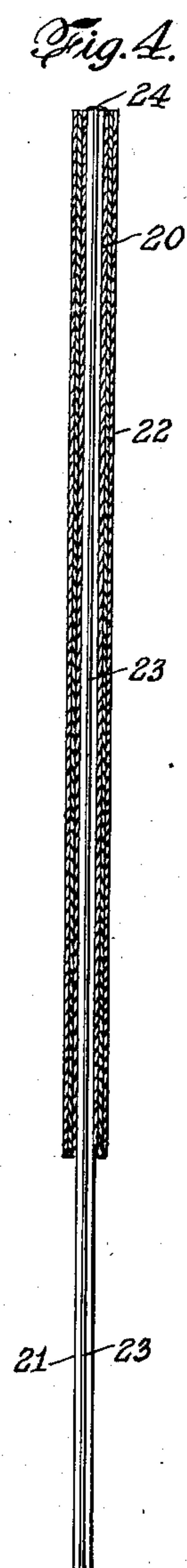
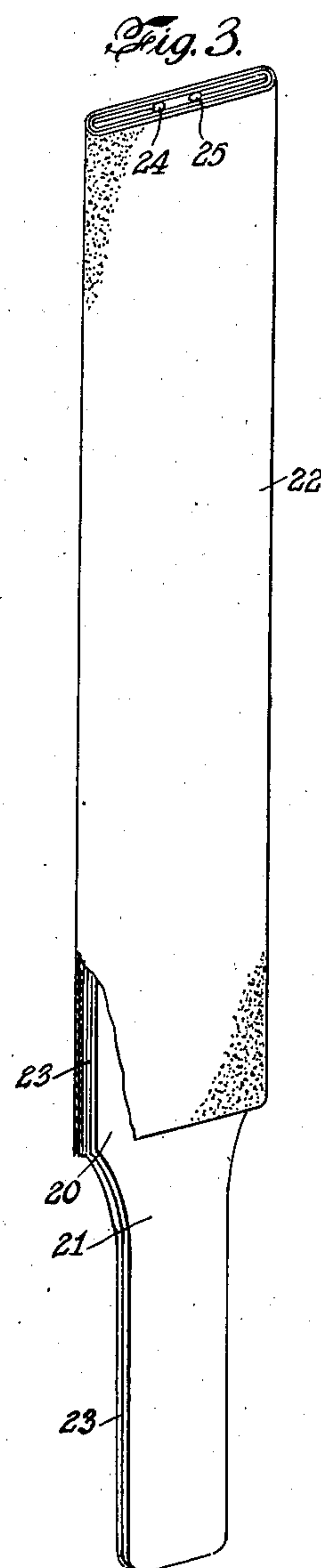
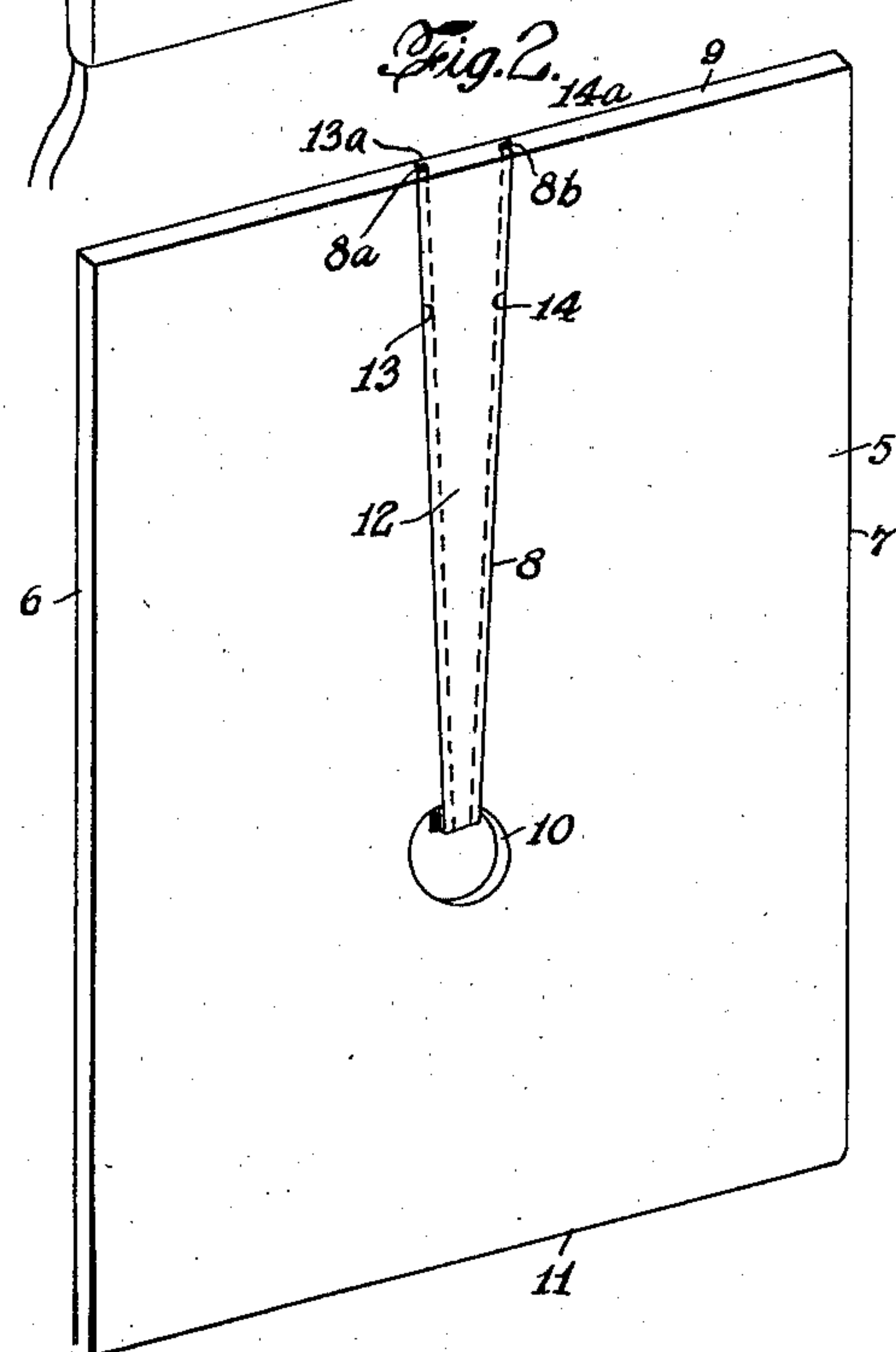
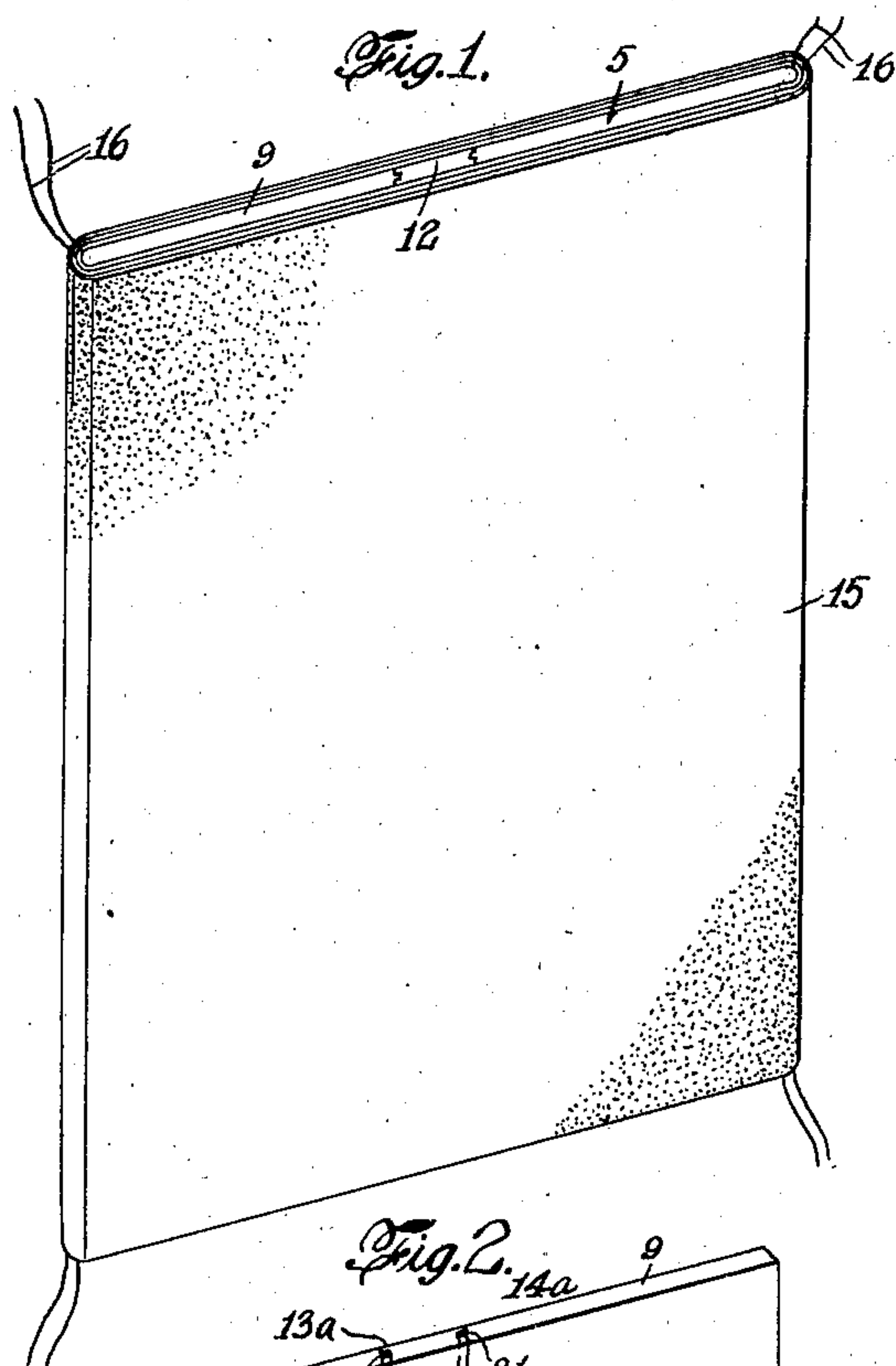
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2,430,785

ABRASIVE BOARD FOR JEWELERS

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UNITED STATES PATENT OFFICE

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ABRASIVE BOARD FOR JEWELERS

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3 Claims. (Cl. 51—186)

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This invention relates to an abrasive or tool sharpener board for jewelers and other workmen, and one of its objects is to provide an abrasive board with a series of fabric sleeves, and means for quickly separating the outermost sleeve from the board, to provide a fresh abrasive surface.

Another object of this invention is to provide a board for this general purpose with one or more abrasive sleeves and means for expanding the side edges of the board to subject the sleeves to internal pressure, so that they will lie flat against the board without any buckles or wrinkles.

With the above and other objects in view the invention relates to certain new and useful constructions, combinations and arrangements of parts, clearly described in the following specification, and fully illustrated in the accompanying drawings in which—

Fig. 1 is a perspective view of one form of the improved abrasive board, showing a series of interfitting abrasive fabric sleeves and rip strings or wires for removing the worn sleeves in succession.

Fig. 2 is a perspective view of the board with the abrasive fabric sleeves removed.

Fig. 3 is a perspective view of another form of the abrasive board, shown partly broken away.

Fig. 4 is a longitudinal sectional view thereof.

Fig. 5 is a detail end view, showing the means for tying the ends of the rip cords or wires.

Referring to the accompanying drawings, which illustrate the invention, 5 designates a rectangular board having parallel side edges 6 and 7. This board is formed with a wedge shaped slot 8, which extends from the end 9 to the hole 10, located inwardly of the end 11, with the wider end of the slot 8 located at the end 9 and the smaller end located at the hole 10.

In the wedge shaped slot 8 a good wedge 12 is slidably disposed, and the side edges 13 and 14 of this wedge are formed with grooves 13a and 14a, which receive the tenons or tongues 8a and 8b of the sides of the slot 8, thus preventing lateral displacement of the wedge in the slot.

On this rectangular board a series of fabric sleeves 15 are arranged, one around the other. The number of such fabric sleeves may be one to three, or more, if required. Each sleeve is formed or provided with a coating of emery or other suitable abrasive material. The individual sleeves are formed from emery or abrasive cloth or paper, or a composition of cloth and paper, coated with emery or abrasive material. Each individual sleeve is formed from a sheet of abrasive fabric or paper, folded into a flat tube and

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the side edges are arranged in overlapping relation and cemented to each other. For this purpose thin cloth or paper is preferred.

Between the interfitting sleeves 15 a rip cord or wire 16 is disposed, and the ends of this rip cord or wire are arranged to loosely extend from the ends of the board on one side of the same, as shown in Fig. 1. When the outermost sleeve is worn out from abrasive use the outermost rip cord or wire may be pulled, thus ripping the engaged side of the outermost sleeve, and causing it to drop from the board 5.

In Figs. 3, 4 and 5 I show a modified form of the invention, wherein a narrower board or stick 20 is used as the base, and this board or stick is formed with a handle 21. On the rectangular body portion of the board 20 a series of abrasive fabric sleeves 22 are arranged, one over the other. A rip cord or wire 23 is arranged around the entire edge of the board or stick 20, and its ends are wound on the fasteners 24 and 25, which are secured to the forward end 26 of the board or stick. One of these rip cords or wires may be arranged against the inner side of each sleeve 22.

The improved abrasive board may be provided with abrasive sleeves of any abrasive fineness or quality, and affords a satisfactory working surface to enable jewelers and other workers to quickly shape or sharpen tools or pieces of metal, and a ready means for renewing worn surfaces.

The sleeves in the construction shown in Figs. 1 and 2 can be stretched so that they will be taut, and no loose play will develop between the abrasive covered fabric and the board, by merely driving the wood wedge into the board slot, thereby expanding the sides of the board.

It is understood that various changes in the details of construction, their combination and arrangement, may be made, within the scope of the claims, which define the invention.

Having described the invention, I claim as new:

1. An abrading tool comprising a rigid rectangular member having extensive front and rear surfaces, said member having relatively shallow lateral edge faces, a sheet of abrasive material in tube form disposed in covering relation with said surfaces and faces, and means for extending said member in the direction of said faces whereby to tighten said sheet.

2. An abrasive tool comprising an oblong member having flat front and back faces and relatively shallow lateral edge faces, said member having therein and extending from one of its end margins substantially to the center thereof a slot, the latter being wide at said margin and narrow

at its inner end, a sheet of abrasive material in tube form disposed on said member, and a wedge element wedgingly disposed in said slot for expanding at least part of said member laterally whereby to lighten the tubular sheet.

3. An abrasive tool according to claim 2, wherein said member has therein an opening, the latter being at the inner end of said slot and communicating with said slot.

VINCENZO SCATTONE. 10

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