

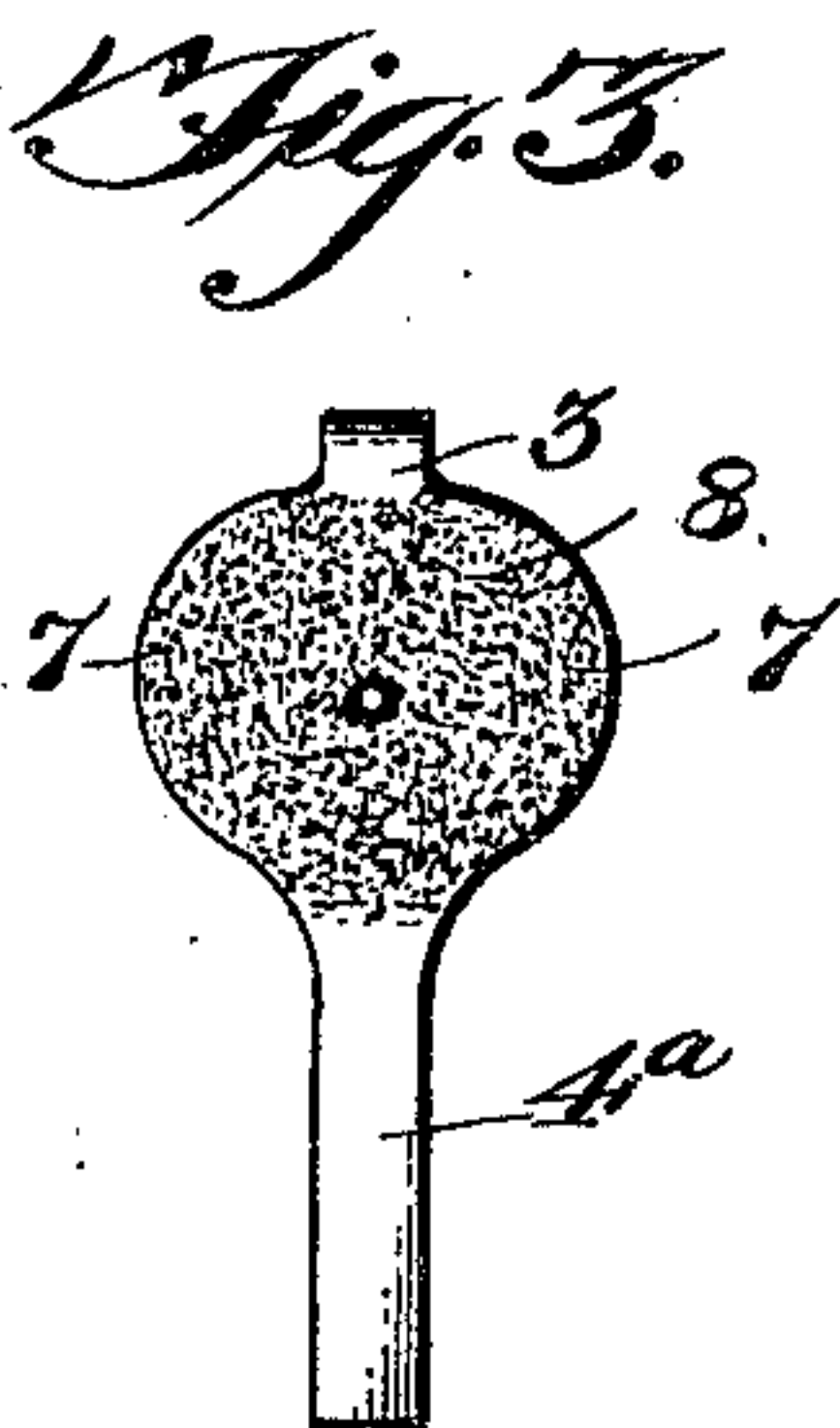
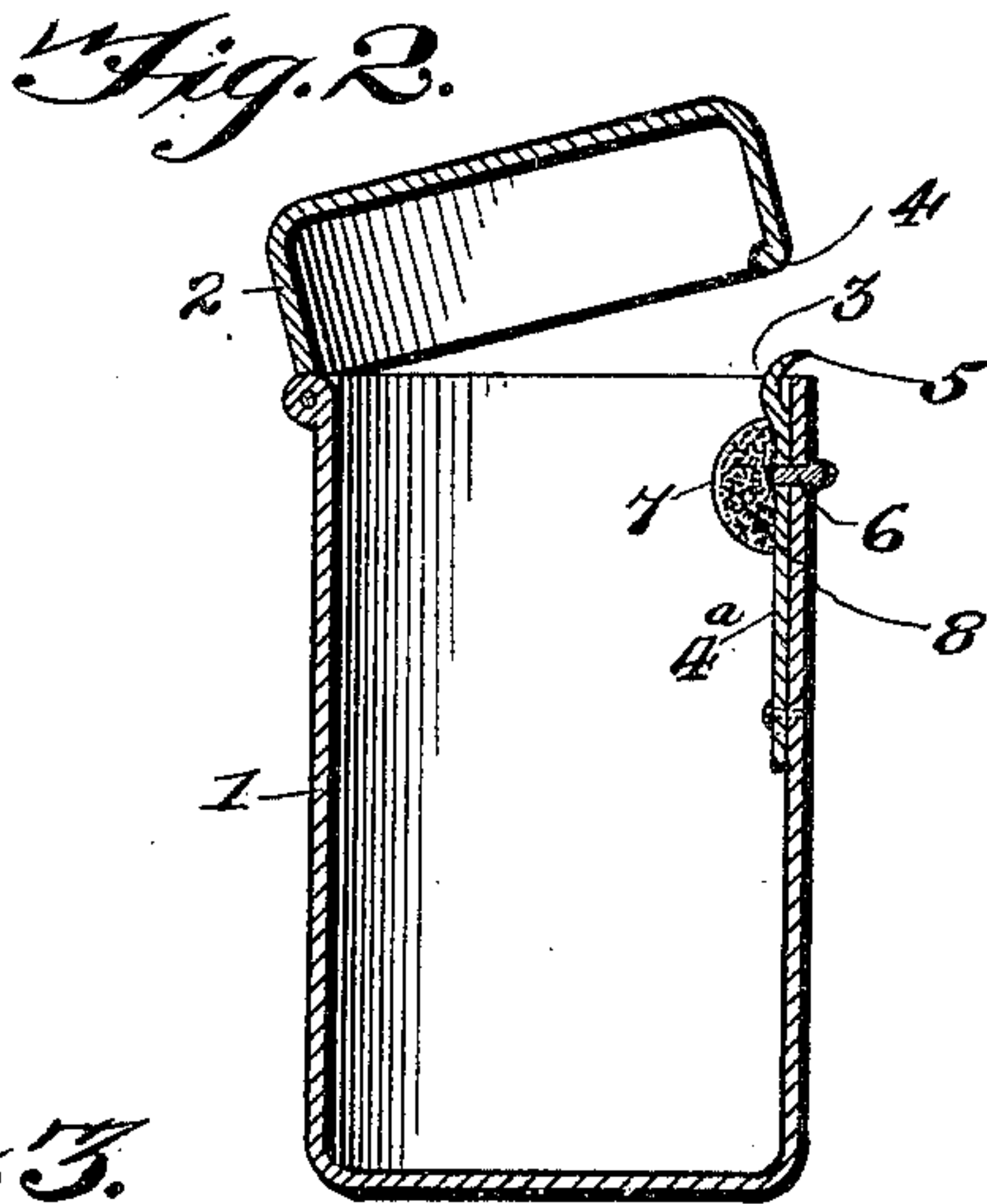
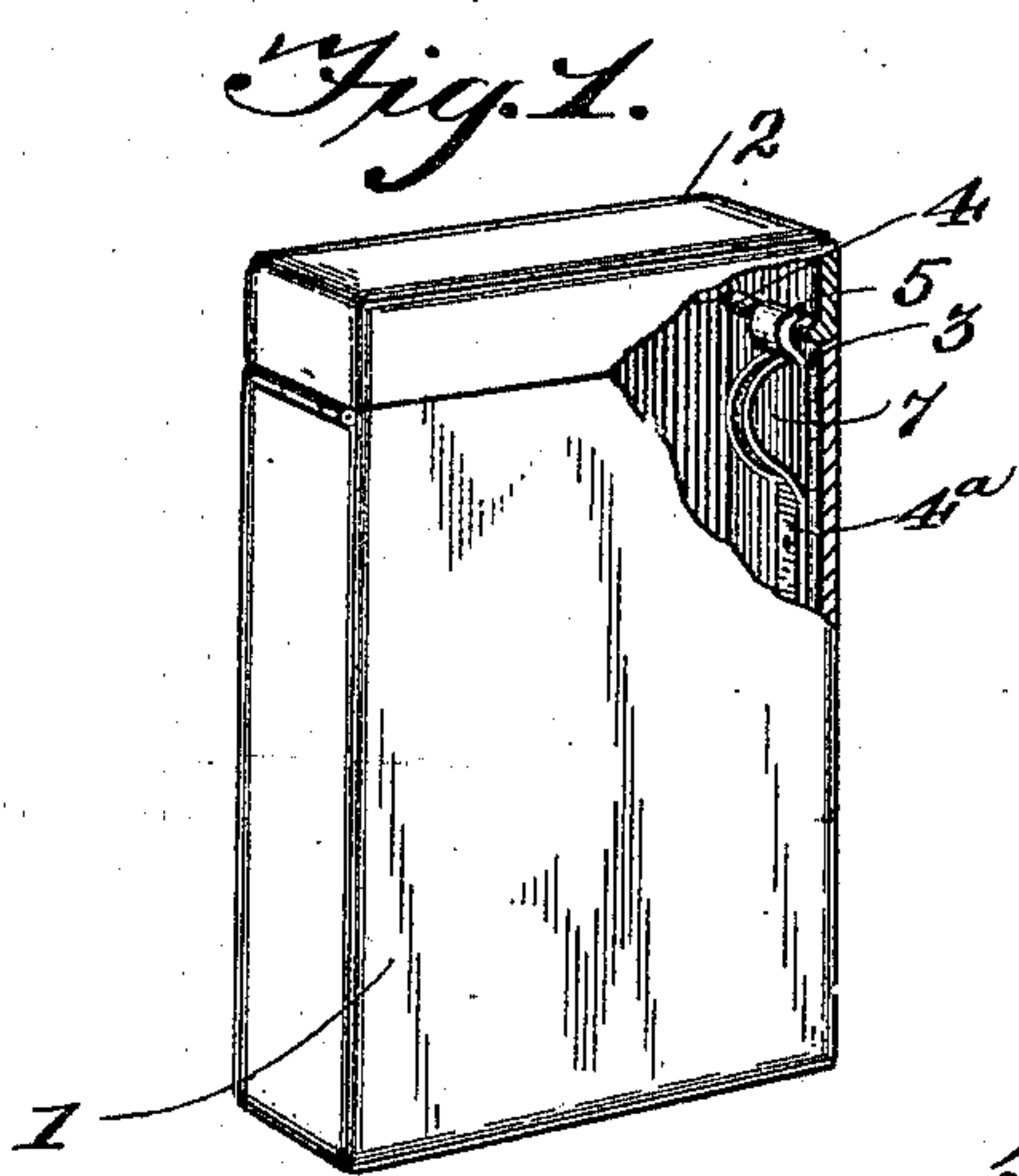
No. 672,545.

Patented Apr. 23, 1901.

T. A. BELL.
MATCH SAFE.

(Application filed Feb. 14, 1900.)

(No Model.)



Witnesses

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UNITED STATES PATENT OFFICE.

THOMAS ADDISON BELL, OF NEW YORK, N. Y.

MATCH-SAFE.

SPECIFICATION forming part of Letters Patent No. 672,545, dated April 23, 1901.

Application filed February 14, 1900. Serial No. 5,163. (No model.)

To all whom it may concern:

Be it known that I, THOMAS ADDISON BELL, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented a new and useful Match-Safe, of which the following is a specification.

This invention relates to match-safes, and particularly to that class carried in the pocket; and the object of the same is to provide simple and effective means for igniting the fulminate of a match during the withdrawal of the same from the safe and without danger of igniting the remaining matches therein, and thereby conveniently facilitate the operation sought without soiling the exterior of the safe, as in ordinary structures, or resorting to awkward means for igniting a match, and, furthermore, shield the lighted match in a material manner, so that it can be used in the wind.

The invention consists in the construction and arrangement of the several parts, more fully hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view of a match-safe partially broken away to show one form of the improved striking attachment and as carried by the snap-spring for holding the lid or cover closed. Fig. 2 is a longitudinal vertical section of the safe as shown by Fig. 1 with the lid or cover partially open. Fig. 3 is a plan view of the blank from which the snap-spring and improved striker are formed. Fig. 4 is a detail perspective view of the improved match striker or igniter in the form used in safes without the snap-spring for the cover.

Similar numerals of reference are employed to indicate corresponding parts in the several views.

The numeral 1 designates the body of a match-safe, which may be of any other contour or shape than that shown and supplied with a hinged lid or cover 2, which, as shown in Fig. 1, is held closed by a spring-snap 3, adapted to engage a bead or lip 4 in the lid or cover and hold the latter in closed engagement with the body 1 until regularly opened.

As shown by Figs. 1, 2, and 3, the improved igniting or match-striking attachment is carried by or forms a part of the snap-spring 3, the latter having a shank 4^a, which is riveted

or otherwise attached to the upper portion of the front end of the body 1 and is formed with an upper bent end 5 to lock over the bead or lip 4 of the lid or cover and operated by a headed pin or stud 6, as clearly shown by Fig. 2. The upper part of the shank 4^a, as shown by Fig. 3, is preferably formed with curved wings 7, which are bent into V shape relatively to the shank 4^a and similar to another single form, as shown by Fig. 4 and which will be presently set forth. The inner surface of each wing 7 and the adjacent part of the shank 4^a is roughened, as at 8, and said parts may have applied thereto a piece of sandpaper or analogous material for creating enough friction to ignite a match drawn thereagainst. Instead of making the wings 7 integral with the shank 4^a the striking attachment, as shown by Fig. 4, can readily be attached to the ordinary straight shank now used in match-safes, and thereby make the improved device readily applicable to common forms of match-safes or the stock for the same which has already been manufactured in shape and without requiring the additional expense that would be necessary to replace the common form of spring-shank with the device shown by Fig. 3. In the primary manufacture of the spring-shank, however, it will be found much cheaper to produce the shank and the attachment from a single blank, as shown by Fig. 3.

In operating the improved attachment as thus far described the fulminate end of the match is drawn upwardly through and crowded into the V-shaped attachment, and the friction resulting from such operation will quickly cause ignition of the match, it being understood that the attachment shown by Fig. 4 will have an inner roughened surface, as clearly illustrated.

In the use of the attachment shown and described the ignited match can be materially shielded from surrounding drafts of wind, and thus used with more certainty, and which can be accomplished by slightly raising the lid or cover, and thereby providing a protective chamber. Furthermore, soiling of the exterior of the box by striking the match thereon, as in ordinary structures, is obviated, and it will also be observed that if it is not desired to ignite the match when removing the same from the body 1 the match can

be removed from the box without engagement with the striking attachment.

Changes in the size, form, proportions, and minor details may be resorted to without in the least departing from the principle or sacrificing any of the advantages of the invention.

Having thus described the invention, what is claimed as new is—

- 10 1. A match-safe having a containing-body and an upper hinged lid or cover of ordinary form, and a snap or locking spring for the lid or cover secured within the body and disposed vertically, the said snap or locking
15 spring having an igniting device of V-shaped form comprising vertically-arranged wings converging toward the snap or spring and having inner roughened faces, the said igniting device being wholly within the confines
20 of the body of the safe, and constituting the sole igniting means therefor, the upper outlet end of the body being wholly clear for the

unobstructed removal of the matches which are ignited at the time of withdrawal from the body independent of any function of the lid or cover. 25

2. A match-safe having a striking or igniting attachment within the body thereof and forming an integral part of the snap-spring for the lid or cover and comprising two wings bent into V shape and having inner opposing roughened surfaces, the diverged portion of the attachment standing innermost to form an opening in a plane parallel with the spring, the attachment being located wholly within the body of the box and in a vertical position. 30 35

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

THOMAS ADDISON BELL.

Witnesses:

CHAS. CLYDE WALL,
CHAS. H. KINSEY.