

No. 751,153.

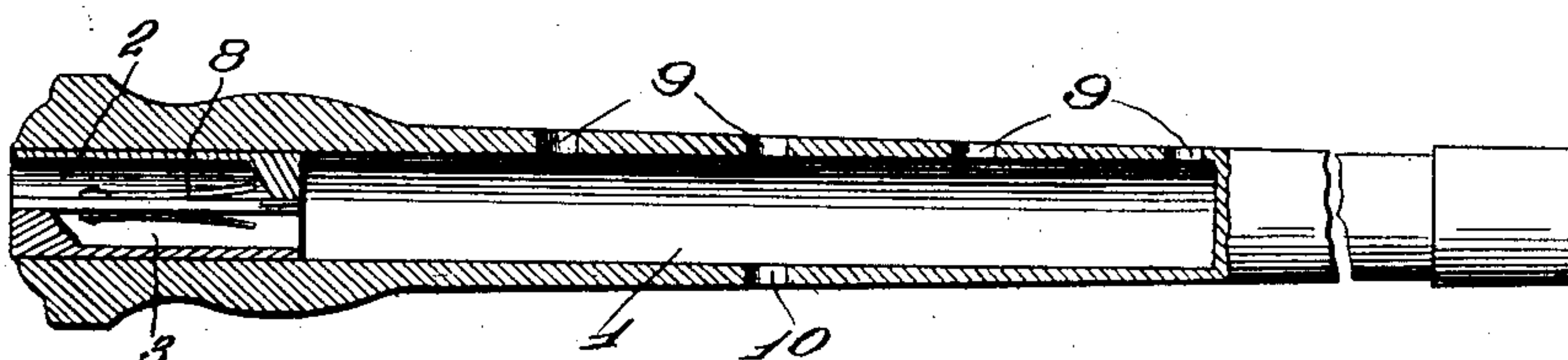
PATENTED FEB. 2, 1904.

I. EISENSTEIN.  
MUSICAL CANE OR SOUNDING DEVICE.

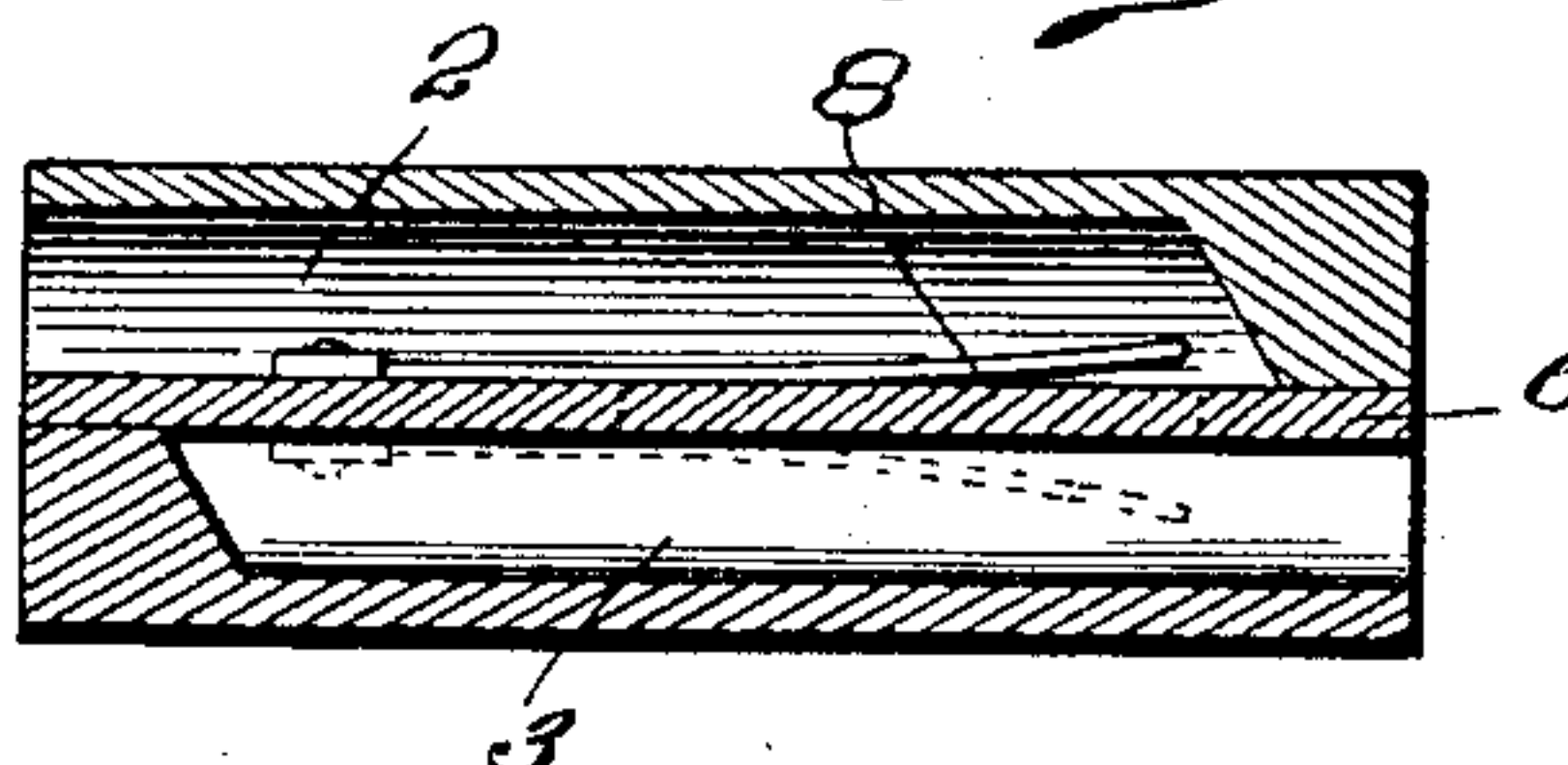
APPLICATION FILED OCT. 12, 1903.

NO MODEL.

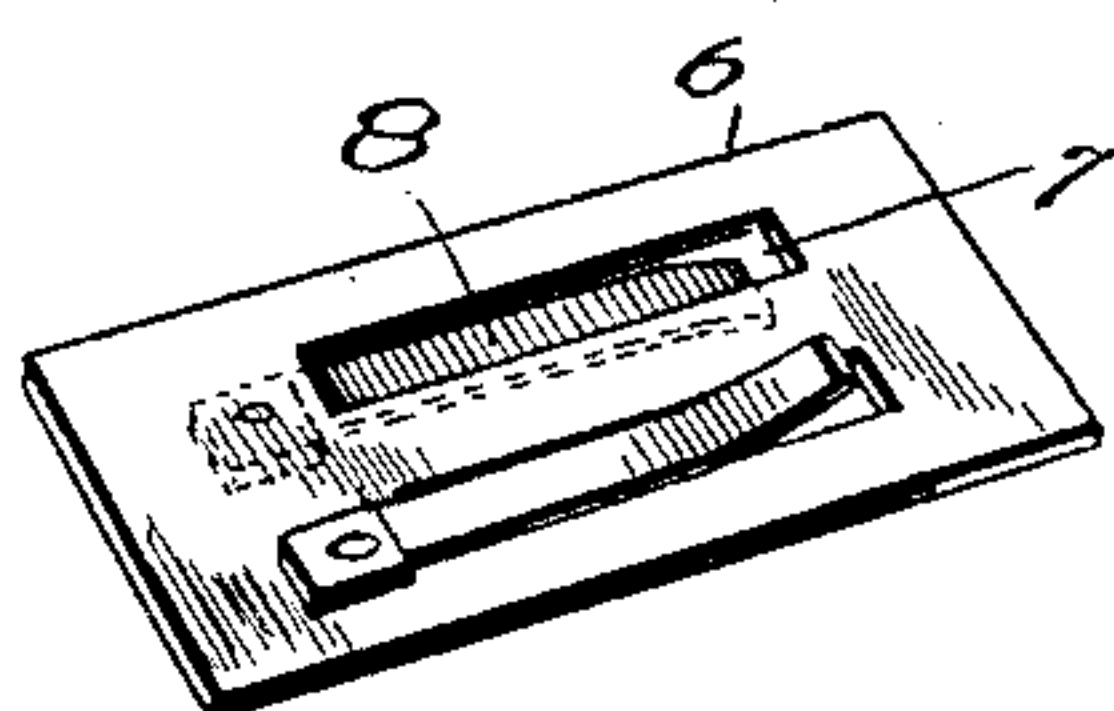
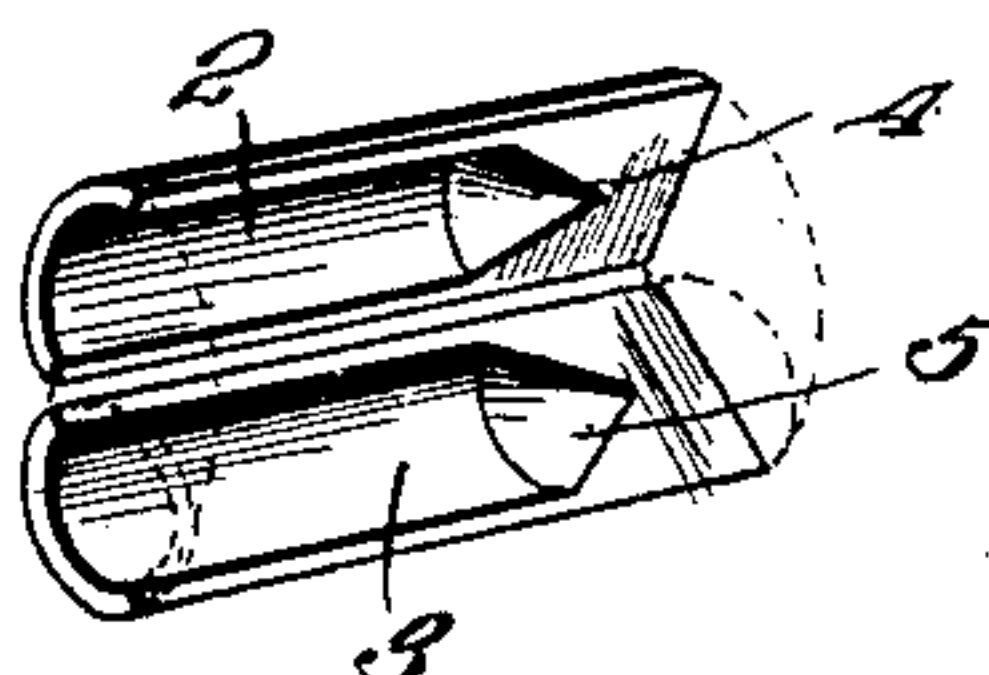
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



*Fig. 4.*

Witnesses

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# UNITED STATES PATENT OFFICE.

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## MUSICAL CANE OR SOUNDING DEVICE.

SPECIFICATION forming part of Letters Patent No. 751,153, dated February 2, 1904.

Application filed October 12, 1903. Serial No. 176,771. (No model.)

*To all whom it may concern:*

Be it known that I, ISRAEL EISENSTEIN, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Musical Canes or Sounding Devices; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in any sounding or musical instruments, and particularly to that class of instruments in which reeds are employed for producing an intonation when they are blown upon or air is forced against them.

The invention consists in a single device comprising two semicylindrical portions arranged in longitudinal alinement and each hollowed out for the greater portion of its length, an abutting wall at one end of each section, the closed end of one section lying opposite the open end of the other, and a reed interposed between said sections.

It also consists in a musical instrument comprising a body portion, a sounding device removably placed therein, the said sounding device being made up of semicylindrical sections, the said semicylindrical portions being hollowed out for the greater portion of their length, means for closing one end of each section, the sections being applied together with the closed end of one section opposite the open end of the other, and a reed interposed between the sections.

It also consists in certain other novel constructions, combinations, and arrangements of parts, as will be hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a longitudinal central section through a musical instrument embodying the features of the present invention, a portion of the instrument being shown in elevation. Fig. 2 is an enlarged sectional view through the musical portion of the instrument. Fig. 3 is a detail perspective view showing the semispherical piece for forming the reed-chamber. Fig. 4 is a perspective view of a reed-plate for use

in connection with the semicylindrical pieces shown in Fig. 3.

The sounding device forming the subject-matter of this application may be constructed in various ways and applied to walking-canes, toy whips, or the like.

I have illustrated in the drawings a musical cane, the said cane being of any desired shape and formed with a hollow portion 1 at one end thereof. The cane is formed hollow, preferably by boring into the end thereof a suitable distance. The sounding portion of the device is preferably constructed of semicylindrical sections 2 and 3, each closed at one end by an abutting portion, as at 4 and 5. A simple and convenient way of forming the semicylindrical sections is by turning a piece of wood or other material to a cylindrical shape and then boring the same from one end nearly the entire length thereof, after which the cylindrical piece thus formed is split centrally, producing the desired semicylindrical sections. One of the semicylindrical pieces is then turned end for end, so that their abutting end portions lie oppositely. A plate, as 6, is then placed between the semicylindrical portions, as shown in Figs. 1 and 2, the plate being provided with openings 7, in which are mounted reeds 8 of ordinary construction. The device thus assembled is then inserted in the open end of the bore in the cane, as shown in Fig. 1, completing the instrument. The cane is also provided with apertures at 9 and 10, which permit air to pass through the hollow portion of the cane. The use of the semicylindrical sections arranged with their closed ends opposite the open ends of the adjacent sections makes it possible to blow upon the reeds 8 either from the end of the cane or through one of the apertures 9 and 10. By providing the reed-plate with more than one reed, as shown in Fig. 4, a plurality of sounds may be obtained. One tone is produced by blowing through the sounding device from the end of the cane, while another tone is produced by blowing through one of the apertures 9 and 10.

Of course it will be understood that I contemplate using one or a greater number of reeds, as found desirable, and any number of apertures 9 and 10 may be employed in the



casing of the instrument for increasing or diminishing the flow of air through the sounding device. The casing may be either in the form of a walking-cane, as shown, or of a toy whip or the like in which it may be desired to locate a sound-producing mechanism. The reed-carrying mechanism being capable of insertion in and removable from the open end of the bore makes it possible to remove the reed-casing and adjust or replace the reeds or the reed-plate if the same gets out of order in any way. The formation of the reed-casing is extremely simple, and yet the desired results are attained by the use of the semicylindrical sections, above described, formed of a single plug, of wood or other material, bored and split, as set forth.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A sounding device comprising two semicylindrical sections arranged in longitudinal alinement each hollowed out longitudinally for the greater portion of its length forming an open side, and an end wall, the wall of one section lying opposite the open end of the

other, and a reed interposed between said sections.

2. A sounding device comprising a casing, a removable cylindrical member formed of semicylindrical hollow sections applied together forming a reed-chamber, the opposite ends of the sections being closed, a reed-plate interposed between the sections carrying one or more sounding-reeds, the casing holding the parts in proper position for producing sound when air is forced through the cylindrical member.

3. A musical cane formed with a bore extending into one end thereof and having lateral openings, a removable reed-containing device made up of semicylindrical sections having oppositely-disposed closed ends, a reed-plate clamped between the sections, and a reed carried by the plate and vibrating in the chamber formed between the sections.

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

ISRAEL EISENSTEIN.

Witnesses:

D. McLEAN SHAW,  
MAURICE ELSTEIN.