S. ACOPIAN.

TELEPHONE BELL DAMPER.

APPLICATION FILED OCT. 26, 1917. RENEWED JAN. 29, 1919.

1,297,982. Patented Mar. 25, 1919.

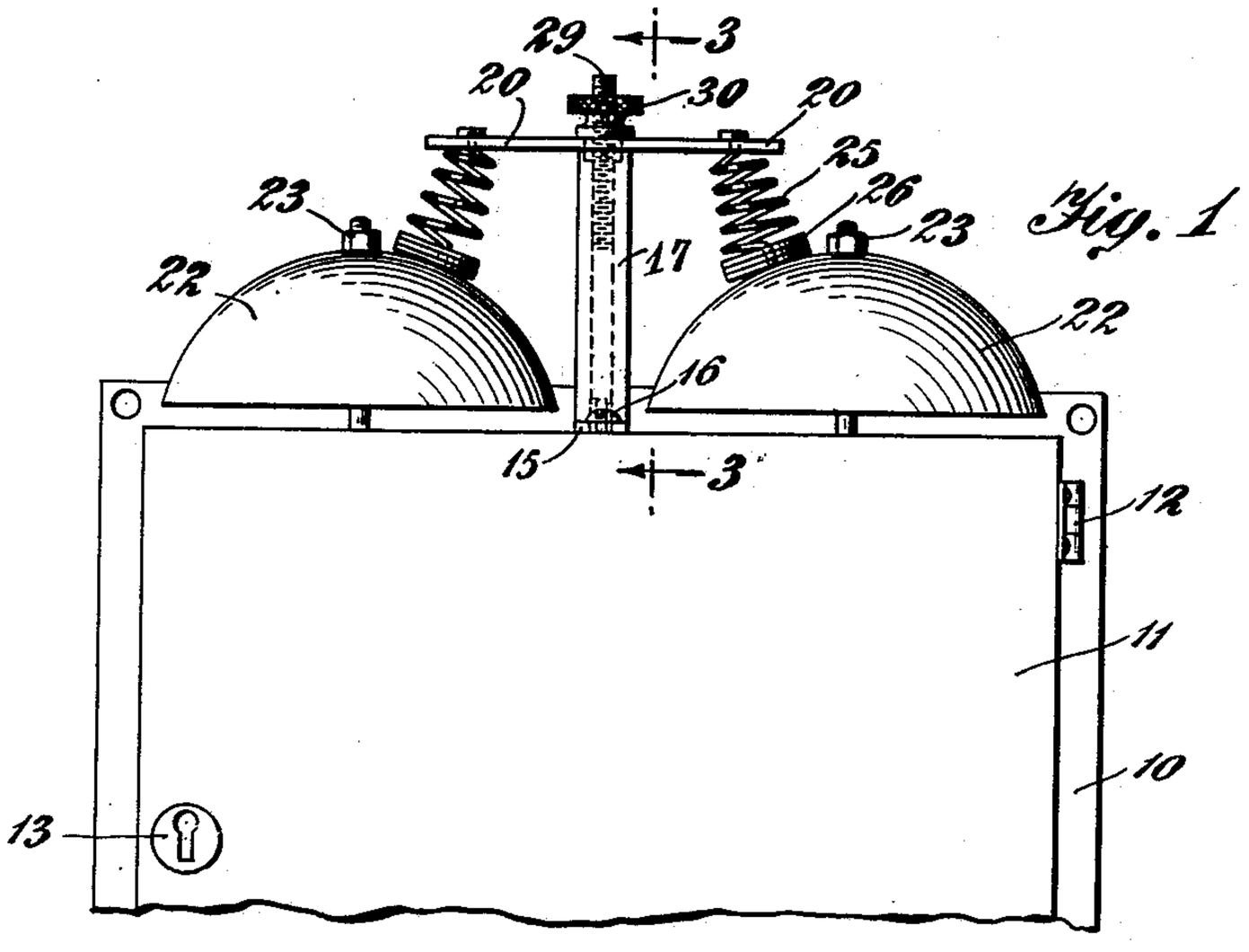

Fig. 1

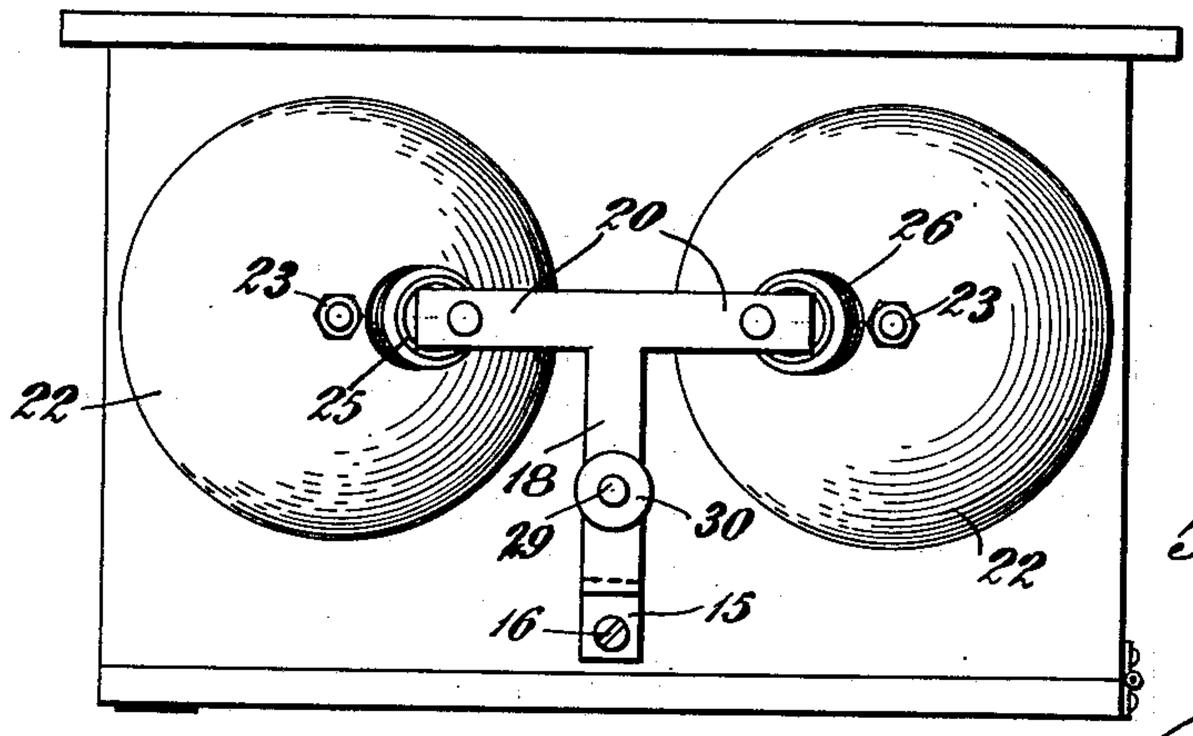

Fig. 2

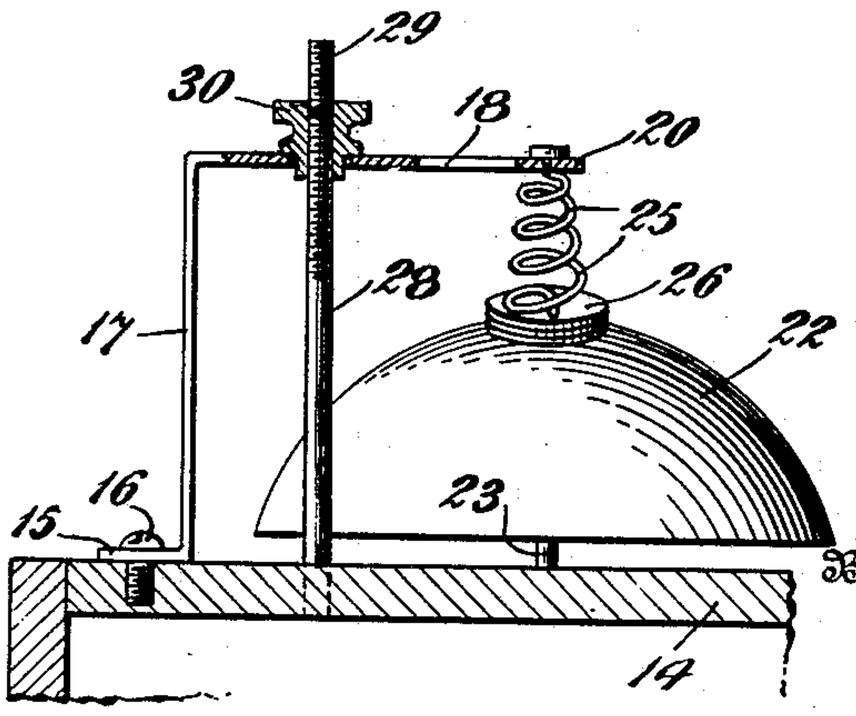

Fig. 3

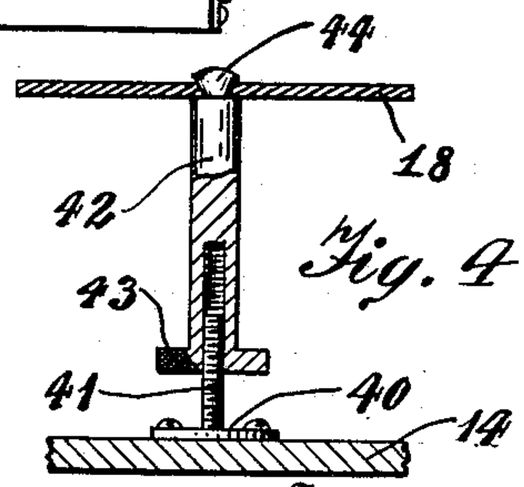

Fig. 4

Inventor

SOOREN ACOPIAN

By his Attorney

Oscar Geier

UNITED STATES PATENT OFFICE.

SOOREN ACOPIAN, OF MONTREAL, QUEBEC, CANADA.

TELEPHONE-BELL DAMPER.

1,297,982. Specification of Letters Patent. Patented Mar. 25, 1919.

Application filed October 26, 1917, Serial No. 198,569. Renewed January 29, 1919. Serial No. 273,881.

To all whom it may concern:

Be it known that I, SOOREN ACOPIAN, a citizen of Russia, resident of Montreal, Province of Quebec, and Dominion of Canada, have invented certain new and useful Improvements in Telephone-Bell Dampers, of which the following is a specification.

This invention relates to improvements in means for reducing the sound produced by bells, particularly those used in connection with telephonic instruments.

A special object of the invention is to provide a device which may be readily applied to the telephone box on which the bells are mounted and which may be so adjusted as to produce any desired volume of sound from the bells.

These and other like objects are attained by the novel construction and combination of parts hereinafter described and shown in the accompanying drawings, forming a material part of this specification, and in which:—

Figure 1 is a fragmental front view indicating the application of the invention.

Fig. 2 is a front view of the same.

Fig. 3 is a transverse sectional view taken on line 3—3 of Fig. 1, and

Fig. 4 is a fragmental vertical sectional view showing a modified form of spring tensioning means.

In the drawing the telephone box 10, is shown to have a door 11, engaged by hinges 12 and provided with a lock 13. On some portion of the box, as at 14, is secured a foot 15, by the screw 16, and integrally formed with the foot is a vertical standard 17, bent to form a horizontal bar 18, from the outer end of which extend oppositely disposed transverse arms 20, which reach partially over the bells 22, secured by posts 23 to the box in the usual manner.

Engaged on the lower side of the arms 20, near their ends, are the upper convolutions of the spiral helical springs 25, while at the lower ends of the springs are secured damper disks 26, adapted to make contact with the exterior of the bells 22, under pressure of the springs 25. These dampers are preferably made of leather, rubber or some relatively soft, pliable material.

In order to adjust the tension of the springs 25, a post 28, is secured in the plate 14, its upper end 29, being screw-threaded and engaged in a knurled nut 30, set in the bar 18 in such manner that as the nut is screwed down, the bar is deflected, causing increased tension upon the springs 25, tending to press the dampers 26 as tightly as may be desired upon the bells, thereby decreasing the sound produced by them.

Obviously, by raising the nut 30, the tension of the springs 25 may be relaxed, or, in fact withdrawn so that contact does not exist between the dampers and the bells if it be desired that the latter give forth their full sound.

In Fig. 4 a modification of the tensioning device is shown in which a footing 40, is secured to the support 14 and has extending a vertical screw-threaded stem 41 engaging in a threaded opening in a spindle 42, having a corrugated flanged disk 43, by means of which the spindle may be turned, the upper end of the spindle extending through the bar 18, and formed with a head 44 so that it may rotate freely within the bar; this form permitting of ready adjustment and presenting a neater appearance.

From the foregoing it will be seen that an effective device has been produced which will effectually control the sound produced by the bells and that the same may be applied without detriment to the telephone box.

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

1. In a bell dampener, the combination with a bell and a support therefor, of a standard secured to said support, said standard having a horizontal arm extending over said bell, a spring carried at the end of said arm, a pliable disk secured to said spring making contact with the exterior of said bell, and means of producing a desired tension in said spring whereby the dampening effect may be adjusted.

2. In a telephone bell dampener, the combination with a support, and a pair of bells mounted thereon, of a standard secured vertically to said support, a horizontal element

formed with said standard, arms on said horizontal element extending over said bells, a coiled spring secured at the end of each of said arms, pliable disk secured at the opposite ends of said springs, a rod mounted in said support, said rod extending through said horizontal element, and a nut fitted to said rod and adapted to engage with said horizontal element whereby the tension of said springs may be adjusted.

In testimony whereof I have affixed my signature.

SOOREN ACOPIAN.