

F. L. ROSE.
 KNOCKDOWN MEGAPHONE.
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1,044,917.

Patented Nov. 19, 1912.

Fig. 1.

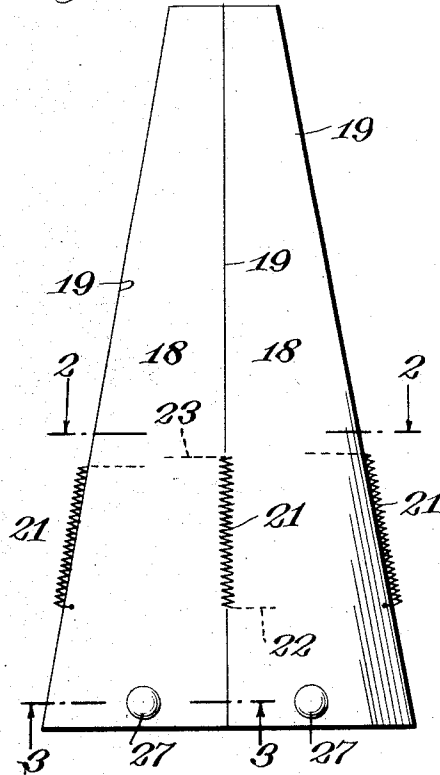


Fig. 2.

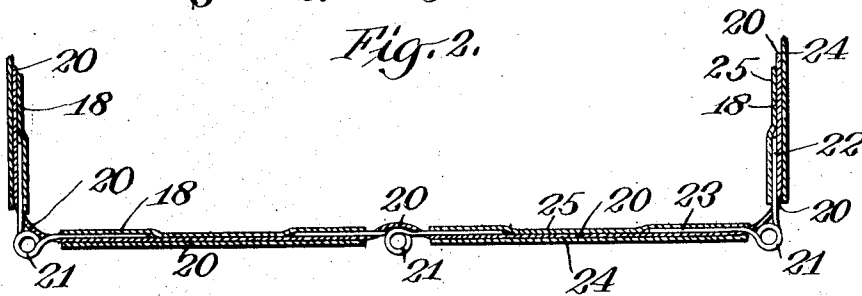
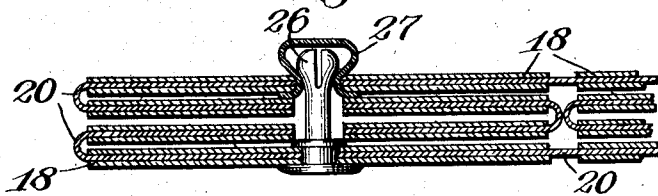


Fig. 3.



WITNESSES

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KNOCKDOWN MEGAPHONE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FRANK L. ROSE, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Knockdown Megaphones, of which the following is a specification, taken in connection with the accompanying drawings, which form a part of the same.

My invention relates to amplifying sound devices and more particularly to a knock down megaphone which may be formed of any suitable material and of any required size for the particular uses to which the megaphone is to be put.

My invention comprises such a knock-down megaphone formed of a plurality of substantially flat elements having some resilient means which is put under tension when the megaphone is collapsed and which will, by loosening a catch or similar device, cause the megaphone to automatically spring out into its distended position.

In the accompanying drawings showing illustrative embodiments of my invention and in which the same reference numerals refer to similar parts in the several figures,—Figure 1 is a side elevation of my megaphone formed of a plurality of separate connected hinged strips to permit the megaphone to be knocked down or collapsed into substantially the position shown in Fig. 3. Fig. 2 is a detail horizontal section substantially on the line 2—2 of Fig. 1 looking down in the direction of the arrows; the figure being shown on an enlarged scale; and Fig. 3 is a detail sectional view partly in side elevation substantially on the line 3—3 of Fig. 1, the megaphone being shown collapsed.

In my invention the megaphone is formed of a plurality of separate strips 18, 18 hinged along the lines 19, 19 in any suitable manner but preferably by means of an interposed piece of textile material 20, Fig. 2. In this form of my invention, I employ any suitable form of resilient means to automatically distend the sections 18, 18 when it is desired to use the megaphone. Various forms of automatic resilient means may be employed. I have shown simply by way of illustration a resilient means consisting of coil springs 21 mounted so that their longitudinal axis would substantially coincide with one of the edges 19 of the megaphone,

one arm 22 of the spring bears upon one of the strips 18, while the other arm 23 bears upon the adjacent strip 18. It is understood that preferably a plurality of such coil springs or resilient means are employed and preferably, though not necessarily, one coil spring for each of the meeting edges 19 of the sections 18, 18, though this number, of course, may be varied without departing from my invention.

Various means of mounting the resilient device within the megaphone may be employed. Simply by way of example, I have shown the two arms 22 and 23 of the coil spring received and secured between the outer strip of cardboard 24 and the inner strip of cardboard 25, the two with the textile material 20 forming one of the built up strips 18, Fig. 2.

It is, of course, to be understood that any suitable means may be employed for securing the resilient means to the megaphone, the one shown being simply by way of illustration.

When this form of my megaphone is in its distended or operative position, the resilient means is not under tension. When the megaphone is knocked down or collapsed, as shown for example in Fig. 3 the collapsing of the sections is resisted by the resilient means which are thereby put under tension. The megaphone is held in its collapsed position against the action of the spring or springs by any suitable means. I have shown by way of example such a locking means in Fig. 3 where the head 26 is riveted to one of the bottom strips 18 and the bell 27 to the upper strip 18, the two intermediate hinge strips being preferably provided with holes to permit the head 26 to pass through them to engage the bell 27 on the upper strip. Preferably I employ two such fastening devices, as shown for example in Fig. 1, the two being duplicates.

My invention is adapted for megaphones of any and every description wherein it is desirable for any purpose to temporarily knock them down into a minimum space to be carried, shipped or stored. My megaphone is adapted to be used with sound reproducing or recording devices, or simply as a pocket megaphone. My megaphones can be made at such a minimum expense that they can be readily used as advertising devices for any suitable advertising matter can be printed or otherwise placed on them, and

they can be given away by the advertiser or sold at a very low figure.

Having thus described this invention in connection with several illustrative embodiments thereof to the details of which I do not desire to be limited, what is claimed as new and what is desired to secure by Letters Patent is set forth in the appended claims.

1. In a knock down collapsible megaphone, the combination of a plurality of hinged sections, a coil spring mounted in line with the meeting surfaces of two adjacent sections, the arms of the coil spring being secured to different adjacent sections.

2. In a knock down collapsible megaphone, the combination of a plurality of hinged sections, a coil spring mounted in line with the meeting surfaces of two adjacent sections, the arms of the coil spring be-

ing secured to different adjacent sections, and means to hold the megaphone in its collapsed position and the springs under tension.

3. In a collapsible knock down megaphone, the combination of a plurality of hinged sections, each section formed of a plurality of built up parts, a strip of textile material in the different sections and extending between each pair of built up sections to form a hinge, one or more coil springs mounted along the meeting surfaces of two adjacent sections and provided with opposed arms which are secured between the plies of the adjacent built up sections.

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Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."