S. GOLDBERG AND L. P. SOLBERG.

CLAPPER.

APPLICATION FILED AUG. 17, 1921.

1,438,304. Patented Dec. 12, 1922.

Fig. 1

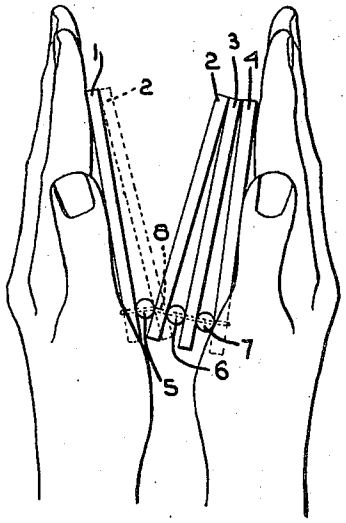


Fig. 2.

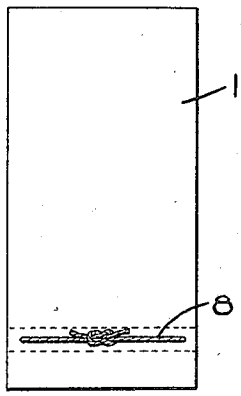
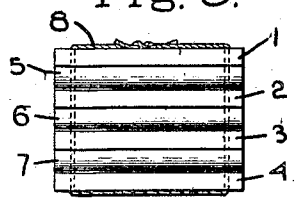


Fig. 3.



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UNITED STATES PATENT OFFICE.

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CLAPPER.

Application filed August 17, 1921. Serial No. 492,991.

To all whom it may concern:

Be it known that we, SAMUEL GOLDBERG, and LYON P. SOLBERG, both citizens of the United States, residing respectively at South Boston, county of Suffolk, State of Massachusetts, and Dorchester, county of Suffolk, State of Massachusetts, have invented an Improvement in Clappers, of which the following description, in connnection with the accompanying drawing, is a specification, like characters on the drawing representing like parts.

This invention relates to a clapper or sound-producing device adapted to make a series of loud, repeated, protracted, sharp sounds, or rat-a-tat-tat, and to be operated by the hands of the user.

The object of the invention is to produce a simple, inexpensive and effective device for this purpose.

In the drawings:

Fig. 1 is a side elevation of a preferred form of the device in operative position in the hands of a user;

Fig. 2 is a top plan view of the device shown in Fig. 1; and,

Fig. 3 is an end elevation of the device.

The device may be constructed of any suitable material adapted to produce the required sounds, but is preferably made of a plurality of flat wooden plates. These plates may be of any suitable shape, but are preferably rectangular and of a size properly proportioned to be readily grasped and operated by the hands of a person.

In the drawings there are shown four such plates 1, 2, 3 and 4.

These plates are assembled in juxtaposed relation and provided with fulcrumed bearings between and separating them preferably near one end, and means are provided for securing the plates and fulcrumed bearings together with the axes of the bearings in substantially transverse alinement when the plates are held in parallelism.

These fulcrumed bearings are preferably separate from the plates, but this is not essential. As shown, the fulcrumed bearings are secured by providing a plurality of small rollers, of suitable material and preferably of wood, located between the plates in the desired relation. If, as illustrated, four plates are employed, then there are three rollers 5, 6 and 7.

Suitable means are provided for securing the plates and bearings, or in this case the rollers, together, in a manner such that the plates may be rocked toward and from each other on the bearings. An inexpensive and convenient means for this purpose is a flexible connector, in the form illustrated, a cord or string 8 passed transversely through the plates and rollers at each side, across the bottom plate and with its ends secured across the top plate.

When the device thus described is held and operated, as in the hands of a person, and as illustrated in Fig. 1, so that pressure is applied transversely of the fulcrumed bearings to the outermost plates and then these plates are rocked toward and from each other, or are given a relative vibratory movement in opposite directions in the general direction of their length, the interposed bearings are oscillated across the plane of transverse alinement causing the opposite ends of the plates to clatter against each other and produce a series of loud, repeated, protracted, sharp sounds, or rat-a-tat-tat.

It will thus be seen that the device is of simple construction, of low cost of manufacture, and simple in operation. It is useful for many purposes, such as, for the celebration of the fourth of July and other holidays, as an applauding device, and as a toy for children. The principle upon which it operates effectively insures the desired results.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is:

1. A clapper comprising a plurality of juxtaposed plates, fulcrumed rolling bearings between and separating said plates and with which the plates have rocking engagement and means for securing the plates and bearings together with the axes of the bearings in substantially transverse alinement when the plates are in parallelism whereby, when pressure is applied transversely of the bearings to the outermost plates and these plates are rocked toward and from each other or are given a relative vibratory movement in opposite directions, the interposed bearings are oscillated across the plane of alinement causing the opposite ends of the plates to clatter.

2. A clapper comprising a plurality of juxtaposed plates, rollers located between and separating said plates and forming ful-

crumed bearings therefor, and a flexible connector passed transversely through the plates and rollers and securing them together with the rollers in substantially transverse alinement when the plates are in parallelism whereby, when pressure is applied transversely of the roller axes to the outermost plates and these plates are rocked toward and from each other, the axes of the interposed rollers are oscillated across the plane of alinement causing the opposite ends of the plates to clatter.

In testimony whereof, we have signed our names to this specification.

SAMUEL GOLDBERG,
LYON P. SOLBERG.