

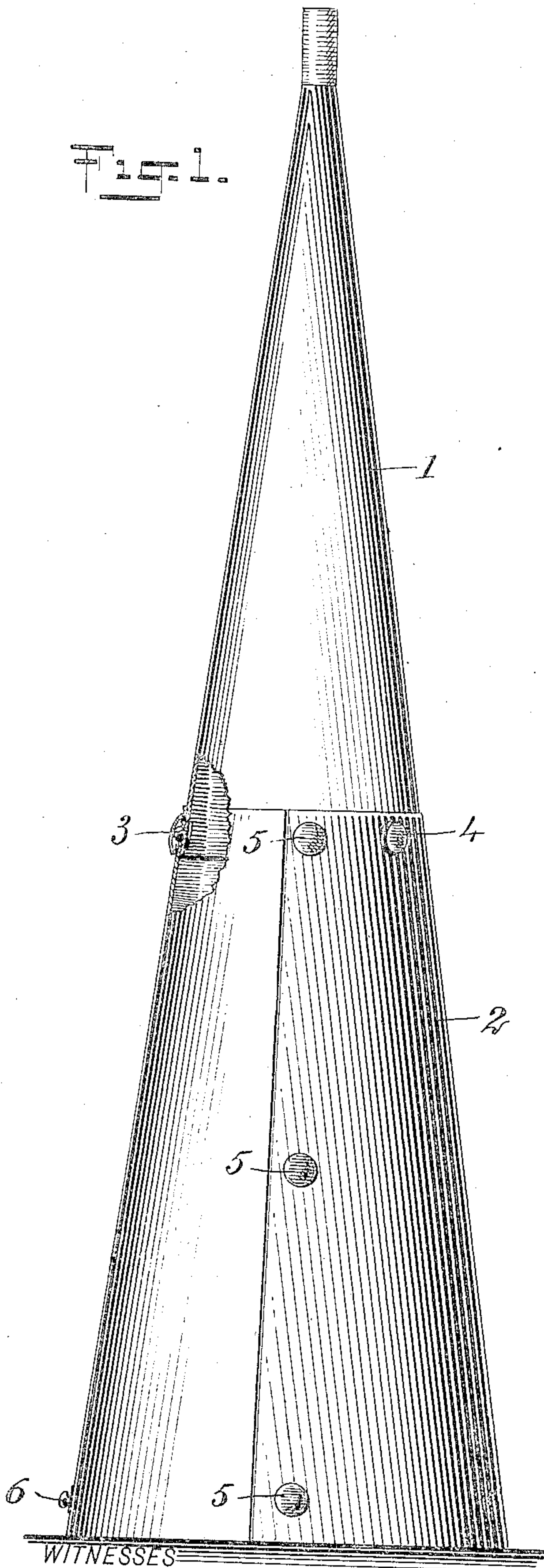
No. 829,836.

PATENTED AUG. 28, 1906.

C. R. BREEN.  
HORN.

APPLICATION FILED APR. 5, 1906.

Fig. 1.



Geo. W. Maylor  
S. C. Remon

Fig. 2.

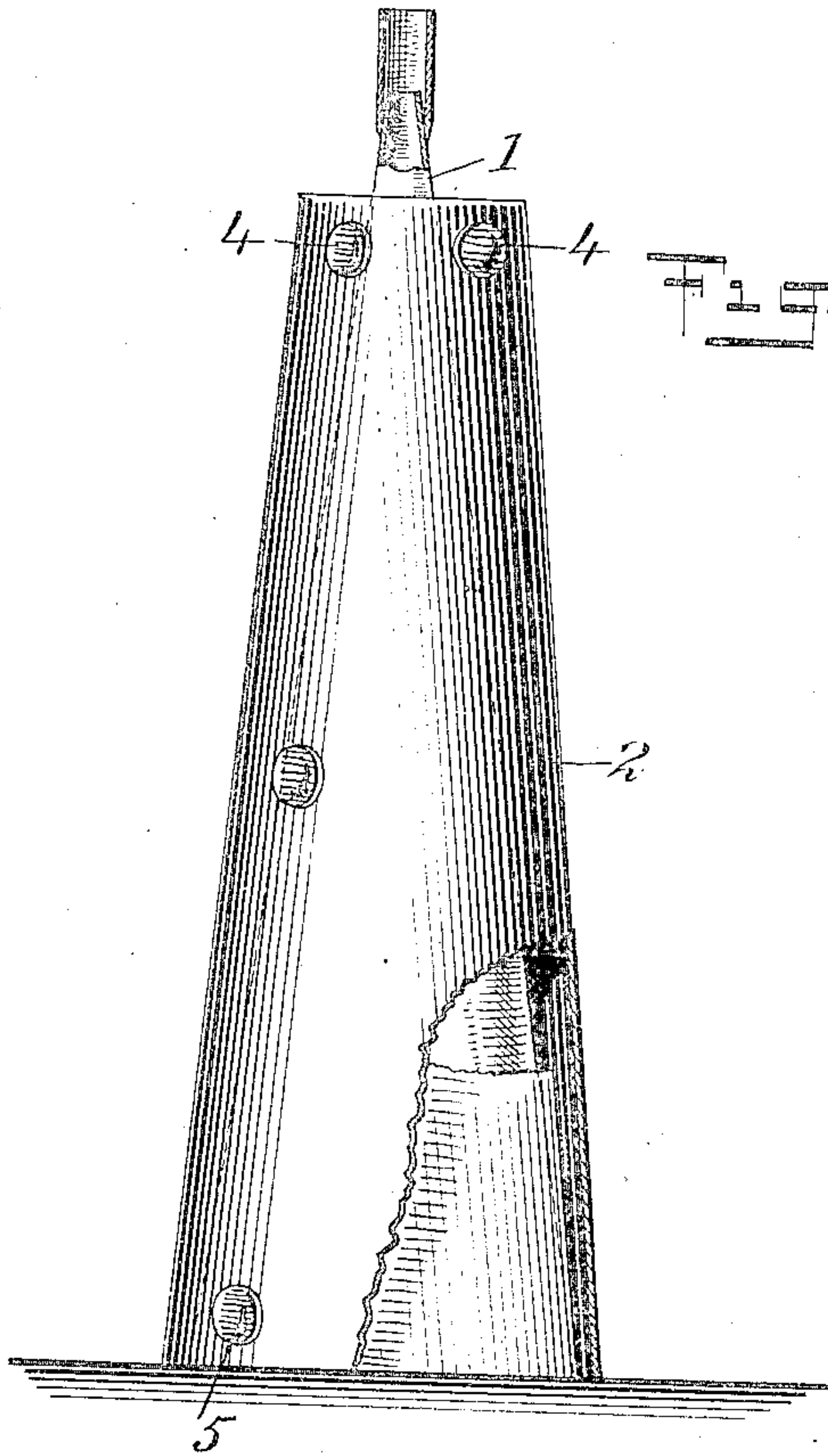
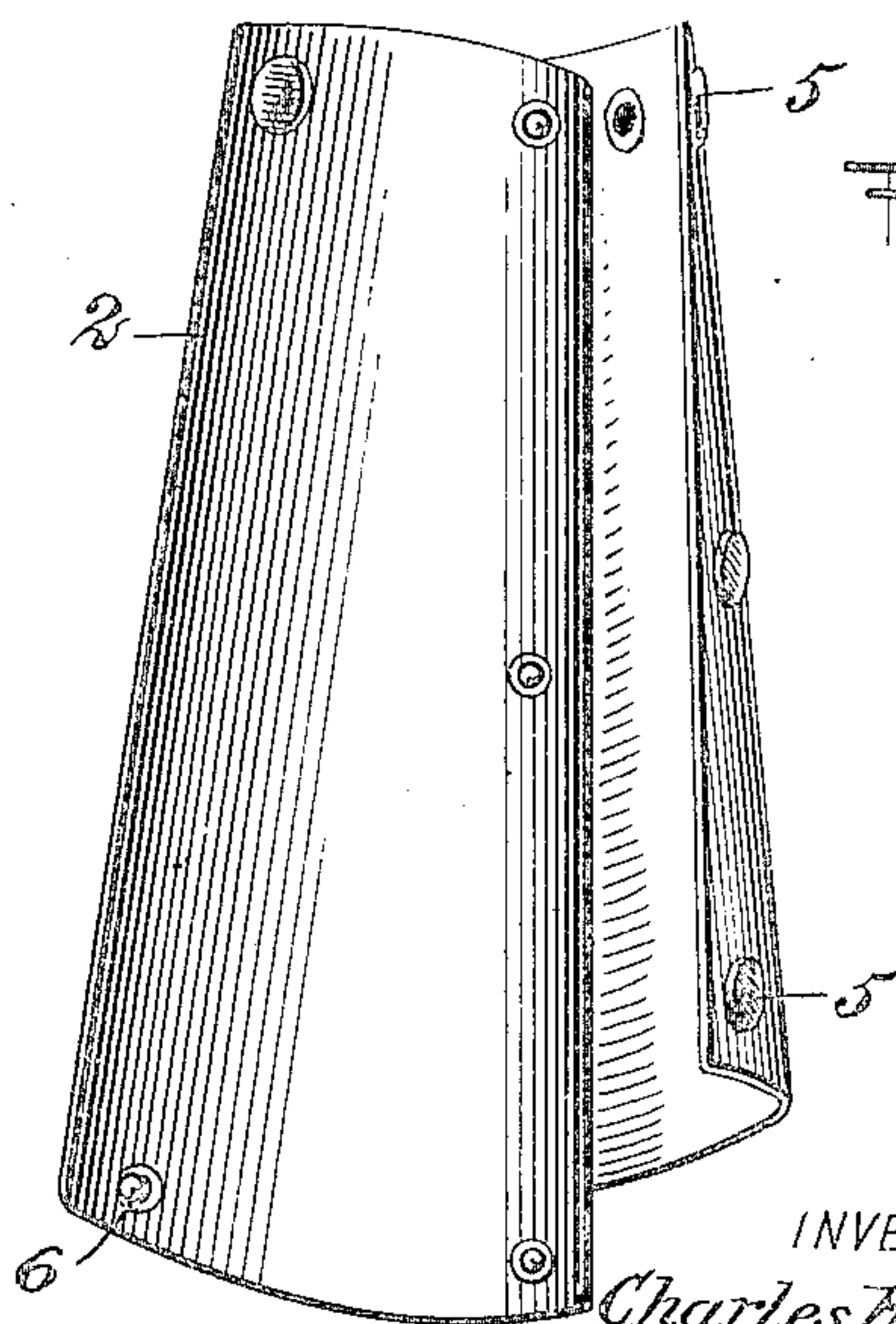


Fig. 3.



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# UNITED STATES PATENT OFFICE.

CHARLES R. BREEN, OF NEW YORK, N. Y.

## HORN.

No. 829,836.

Specification of Letters Patent.

Patented Aug. 28, 1906.

Application filed April 5, 1906. Serial No. 310,017.

*To all whom it may concern:*

Be it known that I, CHARLES R. BREEN, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Horn, of which the following is a full, clear, and exact description.

This invention is an improvement in horns, more especially designed to be used in connection with phonographs and other like machines, but may be used with advantage where a horn of this character is desired.

The main object of the invention is to produce a superior horn or trumpet to those hitherto devised for use in connection with phonographs or other talking-machines and one which is highly resonant, but devoid of the objectionable metallic sound so often encountered in devices with a like object in view.

Another object of the invention is to so construct the horn as to have a removable outer section which may be wrapped about the small end of the horn in order that the whole may be packed in a small compass.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a partly-sectional side elevation of one embodiment of my invention. Fig. 2 is a partly-sectional side view showing the removable section detached and wrapped about the small end of the horn, and Fig. 3 is a perspective view of the removable section.

The numeral 1 indicates a horn in the form of a conical tube of suitable length constructed wholly of fiber paper, to which is buttoned an extension 2 of the same taper and of the same material and of substantially the same length. At the large end of the horn 1 a series of balls 3 are circumferentially secured, passing on the outside of the horn and suitably spaced apart. The extension 2 is split longitudinally and is of such dimensions that when the edges are slightly lapped the small end will be a bit smaller in diameter than the large end of the part 1.

Circumferentially spaced about the small end of the extension 2 is secured a number of sockets 4, opening on the inside of the extension and equal in number and adapted to register with balls 3 at the end of the horn 1 and lock the extension in place when the

balls and sockets are pressed together. Where the edges of the extension lap they are secured together by a number of ball-and-socket fastenings 5 6, similar to those carried at its end and by the large end of the horn 1.

When the horn is to be used, the ball-and-socket fastenings 3 and 4 are engaged, as also those on the edges of the longitudinally-split extension 2, presenting the appearance when assembled as shown in Fig. 1.

When desired to pack the horn for the purpose of carrying it about, the ball-and-socket fastenings are disengaged and the extension wrapped about the horn 1, as shown in Fig. 2, with the lower socket 5 engaged with an auxiliary ball 6 near the outer end, but some distance in from the longitudinal split of the extension. The horn and extension can now be packed in a box of about one-half the size as it would require if they were made as an integral part. By making the horn and extension of paper fiber I am enabled to get a full, even, and continuous volume of sound in which the articulation will be non-metallic, but clear and distinct. In practice I have found it convenient to cover the horn and extension with linen or other fabric to give them a good appearance.

It is obvious that additional extensions may be fixed to each other in the same manner as the extension shown is fixed to the horn without departing from the spirit of my invention or sacrificing any of the advantages thereof.

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

1. A horn of the class described comprising an integral, conical tube of paper fiber, a series of ball-fastenings at the outer end thereof, an extension for the horn split longitudinally of its length having a series of sockets at its inner end adapted to register and engage the ball-fastenings on the horn, ball-and-socket fastenings for locking the longitudinal edges of the extension together, and an auxiliary ball on the extension for locking with a socket on its longitudinal edge when the extension is wrapped about the horn.

2. A horn of the class described comprising a conical tube, and a split extension adapted to be fastened to its end and unfastened, and wrapped to inclose the tube, for the purpose specified.

3. A horn of the class described comprising a conical tube of paper fiber, and a split extension of the same material adapted to be fastened to its end, and unfastened, and  
5 wrapped to inclose the tube, for the purpose specified.

4. A horn of the class described comprising a conical tube, and a split extension adapted to be fastened thereto and wrapped there-  
10 about, said horn and extension being of substantially equal lengths.

5. A horn of the class described comprising a conical tube, a split extension removably secured thereto by ball-and-socket fasten-  
15 ings, and auxiliary fastening means for se-

curing the extension to substantially inclose the horn.

6. A horn of the class described, a conical tube of paper fiber, a split extension of the same material removably secured thereto by 20 ball-and-socket fastenings, and fastening means for securing the extension to substantially inclose the horn.

In testimony whereof I have signed my name to this specification in the presence of 25 two subscribing witnesses.

CHARLES R. BREEN.

Witnesses:

JOHN G. NAURATH,  
JAC. B. ZEEGLER.