

(No Model.)

A. F. STANLEY.  
BELL.

No. 449,832.

Patented Apr. 7, 1891.

FIG. 2.

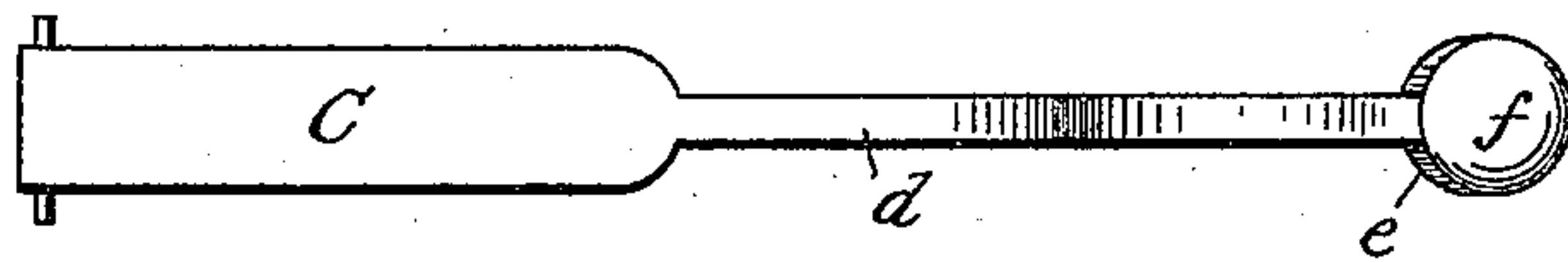


FIG. 3.

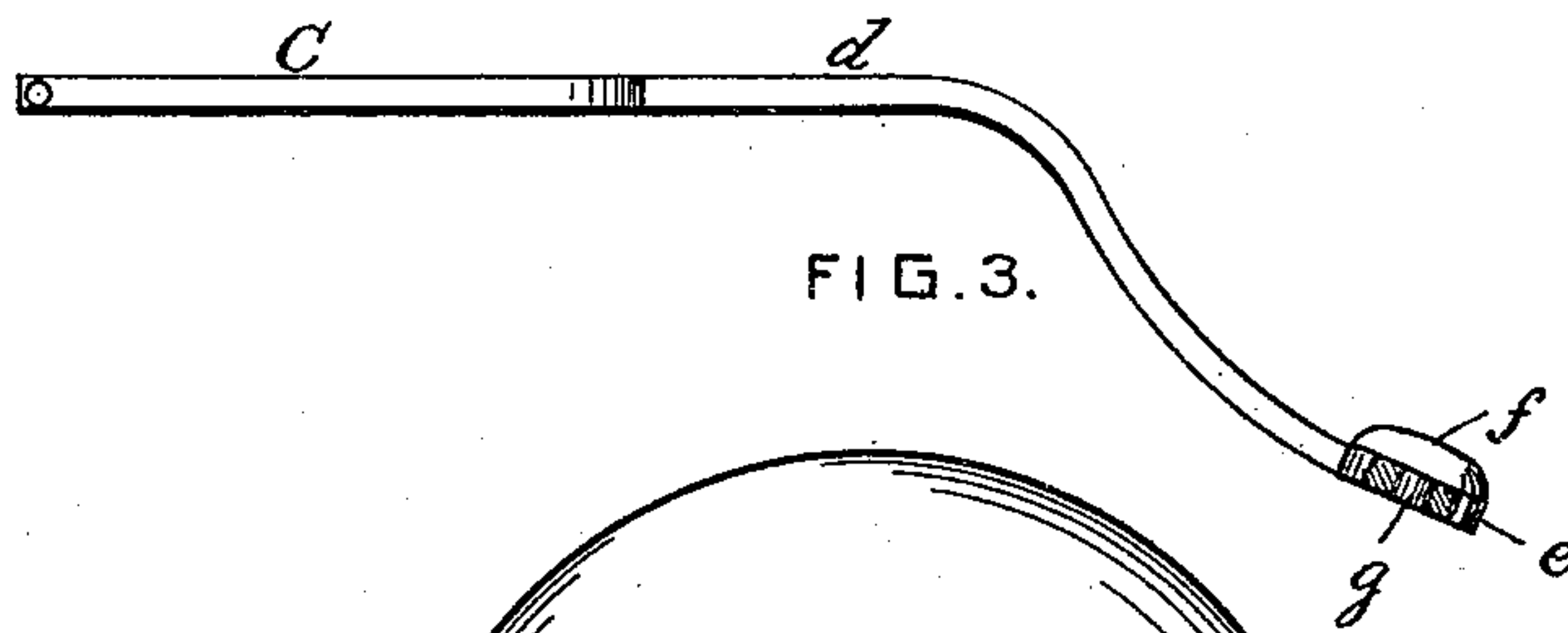
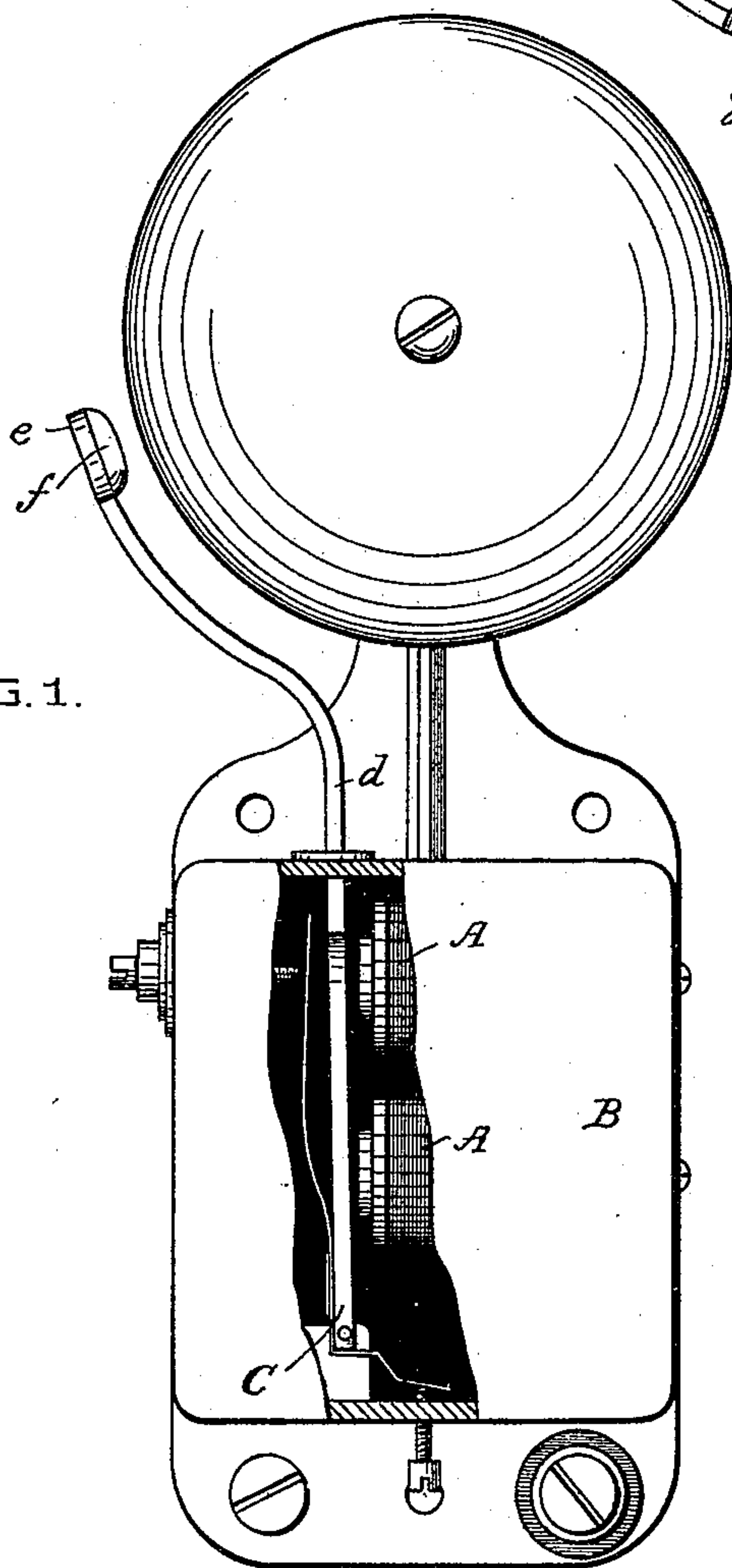


FIG. 1.



WITNESSES

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# UNITED STATES PATENT OFFICE.

ARTHUR F. STANLEY, OF NEW YORK, N. Y.

BELL.

SPECIFICATION forming part of Letters Patent No. 449,832, dated April 7, 1891.

Application filed May 29, 1890. Serial No. 353,598. (No model.)

*To all whom it may concern:*

Be it known that I, ARTHUR F. STANLEY, 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 Electric Bells; 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.

In Letters Patent No. 423,707, granted to me on March 18, 1890, I have described an invention having for its object the construction of electric bells in which the armature, hammer-stem, and hammer were all in one piece. In the said patent I have shown the armature, hammer-stem, and hammer struck up out of one flat piece of iron or steel, and have shown as the preferred form a twisted stem for the purpose of presenting the edge of the hammer-disk to the gong. While such construction is satisfactory, I have found it desirable to somewhat soften the nature of the blow given, because the iron hammer-disk has a tendency to deface the softer metal of the gong, and in addition produces a sound which is not quite so melodious as if struck by a hammer of other material, such as brass or bronze. I have therefore improved the construction; and my present invention consists in stamping the armature, hammer-stem, and hammer-disk out of one piece, as in my said patent, and attaching a peen of other metal to the hammer-disk.

In the accompanying drawings, which form part of this specification, Figure 1 is a view

of the complete electric bell with a portion of the front cut away. Fig. 2 is a front, and Fig. 3 a side, view of the combined armature, hammer-stem, and hammer-disk.

The electro-magnets A are located, as usual, in the box B, and in a suitable bearing I pivot the armature C, which is, as already stated, constructed in one piece with the stem *d* and hammer or disk *e*. Upon the latter I mount the peen *f*, which preferably consists of a convex piece of brass having the attaching-stem *g*, which is inserted or screw-threaded into a corresponding hole in the disk *e*, and for the purpose of obtaining solidity throughout I prefer to unite the parts *e*, *f*, and *g* by means of solder. Thus constructed the stem *d* need not be twisted, the blow struck upon the gong is given by a metal more suitable than iron or steel with respect to the sound produced, and the gong does not become defaced by repeated use.

I claim as my invention—

As an article of manufacture, the herein-described electro-magnetic hammer for electric bells, consisting of the armature C, the stem *d*, and the perforated hammer-disk *e*, stamped in one flat integral piece of iron or steel, in combination with the peen *f*, of other metal, attached thereto by the stem *g*.

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

ARTHUR F. STANLEY.

Witnesses:

T. J. MCTIGHE,  
J. C. SPAETH.