

(No Model.)

F. L. BECKER.

COMBINED CHIN AND SHOULDER REST FOR VIOLINS.

No. 360,408.

Patented Apr. 5, 1887.

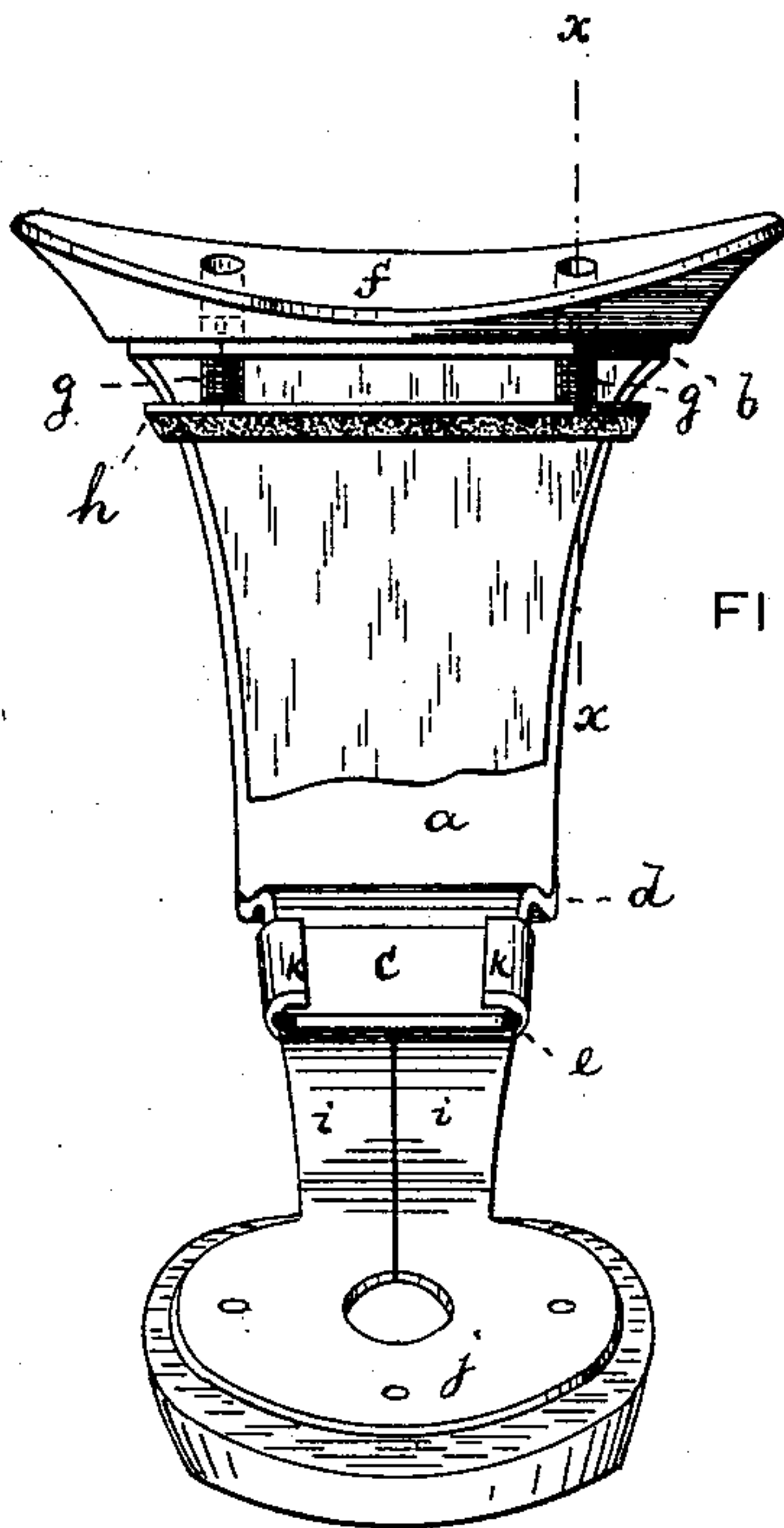


FIG. 1

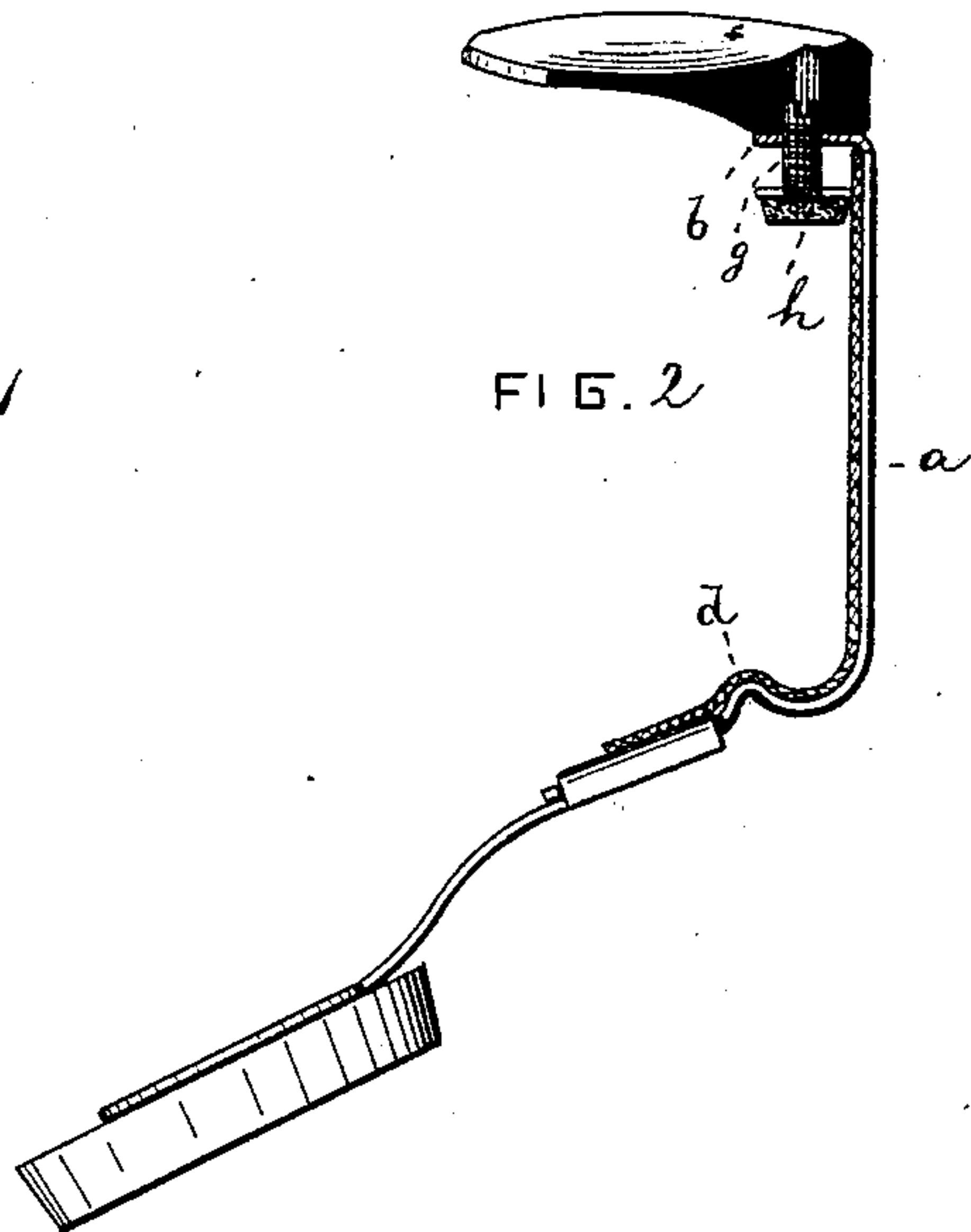


FIG. 2

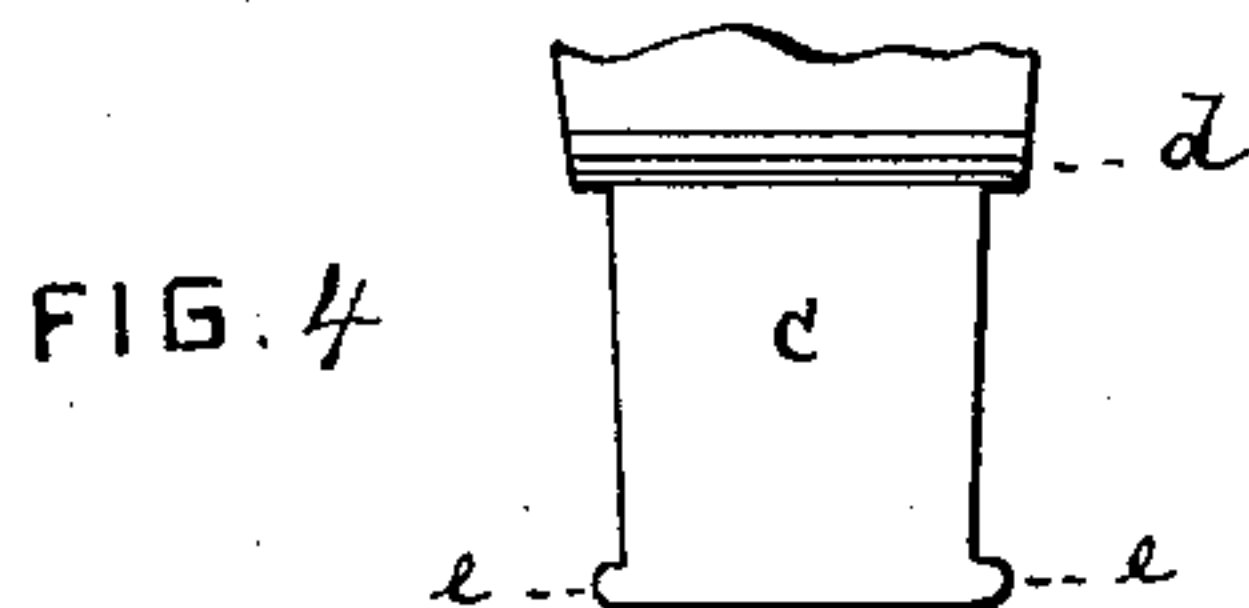


FIG. 4

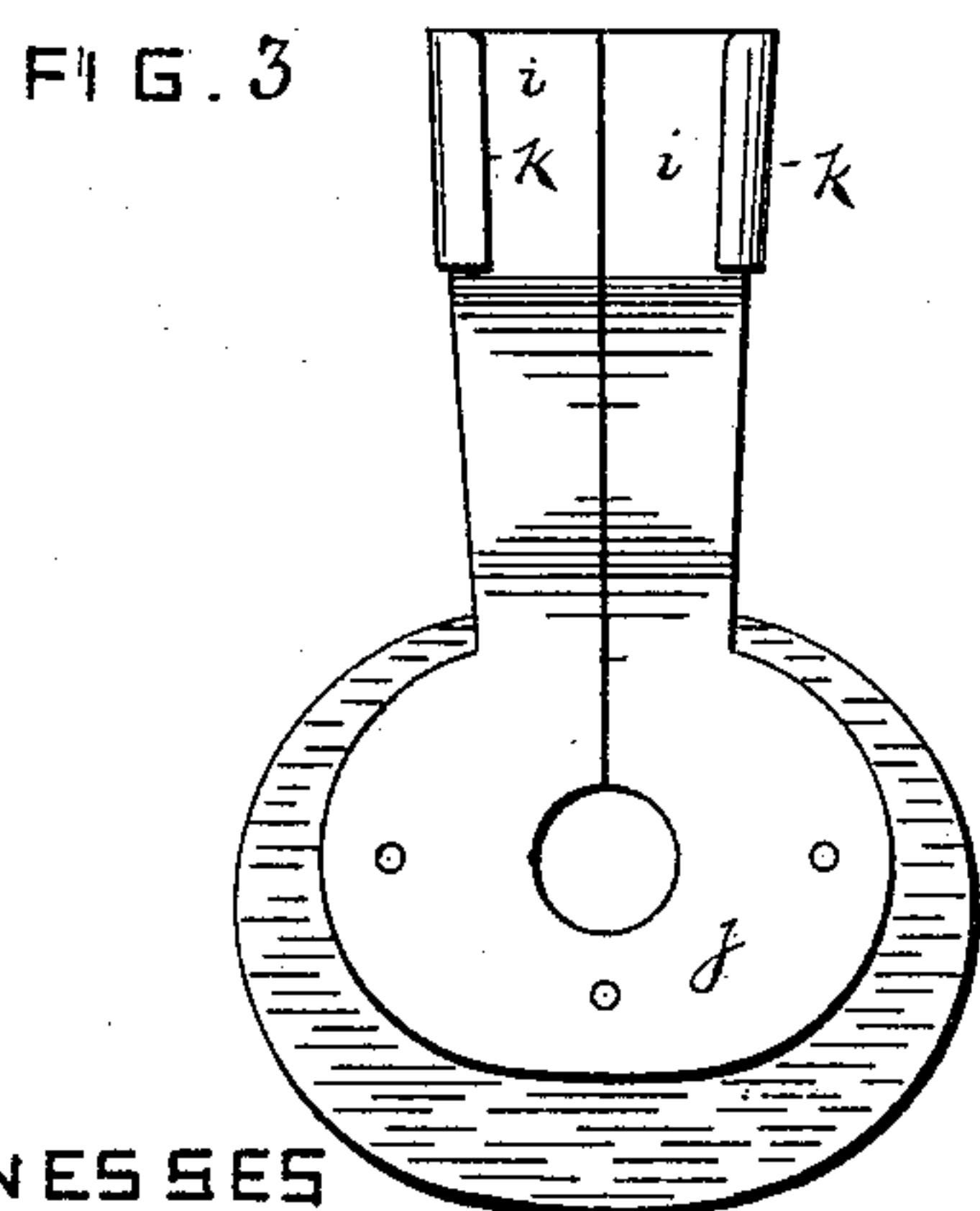


FIG. 3

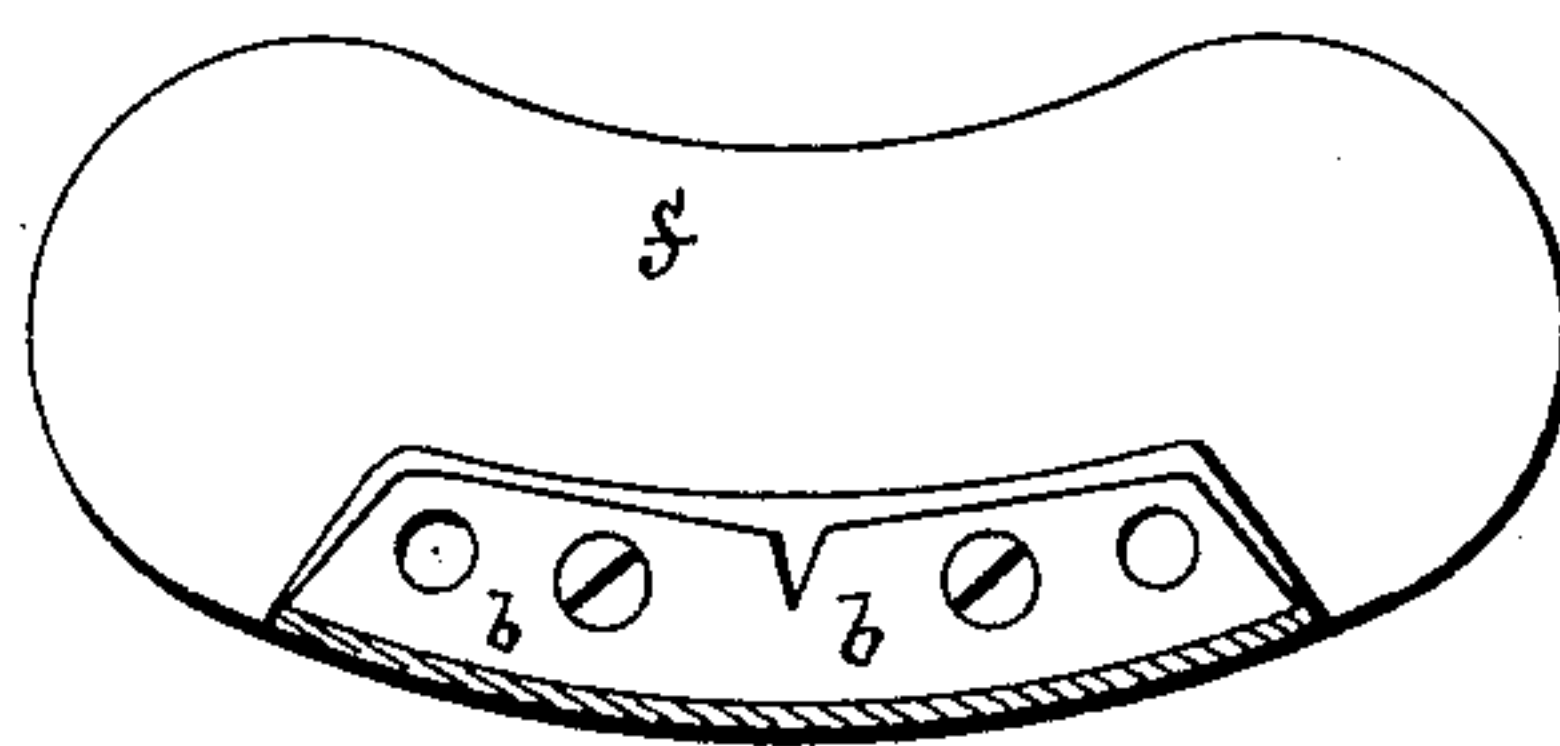


FIG. 5

WITNESSES

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# UNITED STATES PATENT OFFICE.

FRANCIS L. BECKER, OF NEW YORK, N. Y.

## COMBINED CHIN AND SHOULDER REST FOR VIOLINS.

SPECIFICATION forming part of Letters Patent No. 360,408, dated April 5, 1887.

Application filed February 9, 1887. Serial No. 227,017. (No model.)

*To all whom it may concern:*

Be it known that I, FRANCIS L. BECKER, a citizen of the United States, residing at New York, in the county and State of New York, have invented a new and Improved Combined Chin and Shoulder Rest for Violins, of which the following is a specification.

This invention relates to a violin chin-rest to which is detachably secured a shoulder-rest. The chin-rest is provided with an adjustable clamp-plate, by means of which the rest may be adapted to violins of different sizes. The shoulder-rest has spring-arms that embrace a tongue depending from the chin-rest.

The invention consists in the various features of improvements, hereinafter more fully pointed out.

In the accompanying drawings, Figure 1 is a front view of my improved combined violin chin and shoulder rest. Fig. 2 is a sectional side view on line *x x*, Fig. 1. Fig. 3 is a detail view of the shoulder-rest detached. Fig. 4 is a detail view of the end of tongue *c*. Fig. 5 is a bottom view of plate *f*.

The letter *a* represents a plate of metal bent over at the upper edge to form flange *b*, and terminating at its lower end in an inclined tongue, *c*, which has a bead, *d*, at its top and laterally-projecting lugs *e* at its bottom.

To the flange *b* there is secured in suitable manner the chin-rest plate proper, *f*. This plate, as well as the flange *b*, is perforated at two places, the perforations being internally screw-threaded for the reception of the countersunk screws *g*, that pass into a cushioned clamp-plate, *h*. The screws have upset ends, and thus constitute supports from which the clamp-plate is suspended. By turning the screws *g* to the right or left, the clamp-plate *h*

may be lowered or raised, and thus the distance between such plate and the bead *d* may be diminished or increased. The adjustment is so made as to correspond to the thickness of the violin to which the rest is to be applied.

The tongue *c* is embraced by the flanged upper ends of two spring-arms, *i*, joined to a common ring-shaped cushioned shoulder-plate, *j*, the whole constituting the shoulder-rest. The spring-arms will have a tendency to bear with their flanges *k* against the edges of tongue *c*, and to thus secure the shoulder-rest to the chin-rest. The lugs *e* will prevent the parts from becoming automatically detached.

If the shoulder-rest is to be removed, it is drawn down, and the spring-arms *i* in spreading will cause the flanges *k* to clear the lugs *e*.

What I claim is—

1. The combination of plate *a*, having tongue *c* and flange *b*, with the perforated chin-rest *f*, secured to such flange, and with the adjustable clamp-plate *h*, suspended from the chin-rest *f* by countersunk screws *g*, having upset ends for engagement with said clamp-plate, substantially as described.

2. The combination of plate *a*, carrying chin-rest *f* and tongue *c*, with the shoulder-rest composed of plate *j* and spring-arms *i*, having flanges *k*, that are adapted to embrace tongue *c*, substantially as specified.

3. The combination of plate *a*, having chin-rest *f*, adjustable clamp-plate *h*, and tongue *c*, that has bead *d* and lugs *e*, with a spring shoulder-rest adapted to embrace tongue *c*, substantially as described.

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Witnesses:

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HENRY E. ROEDER.