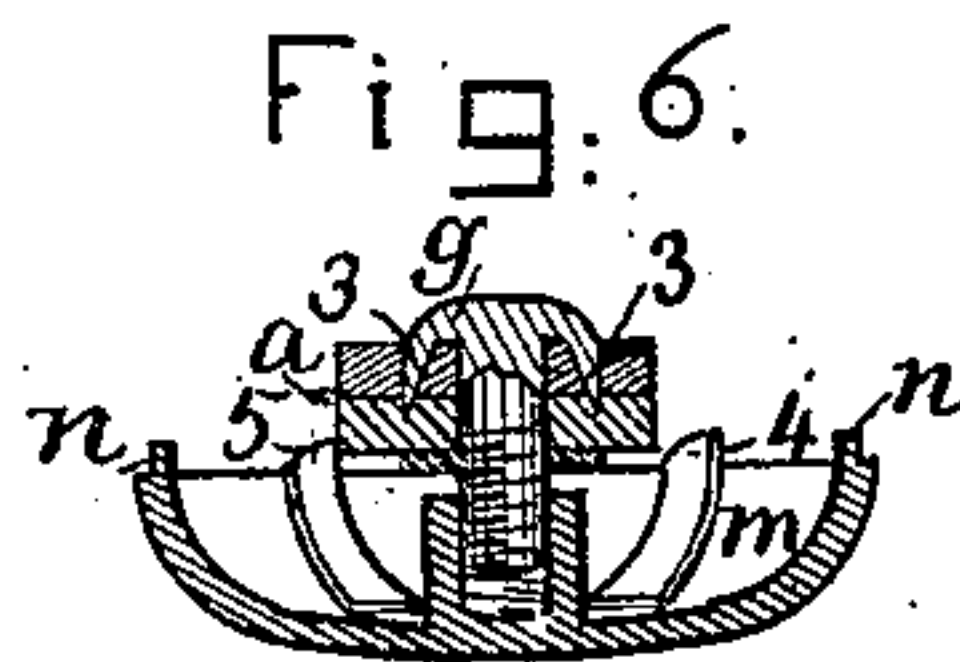
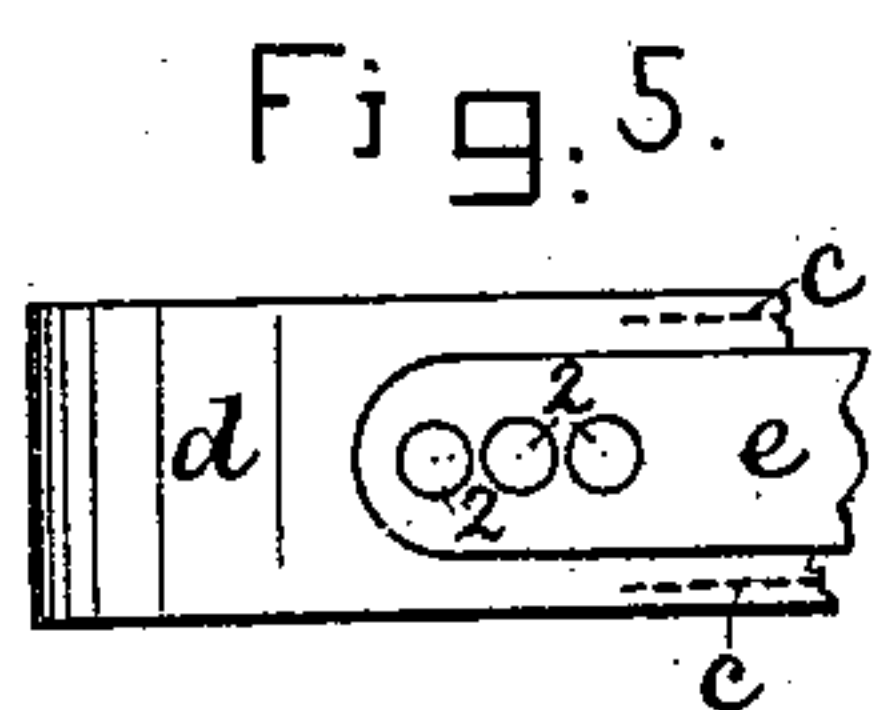
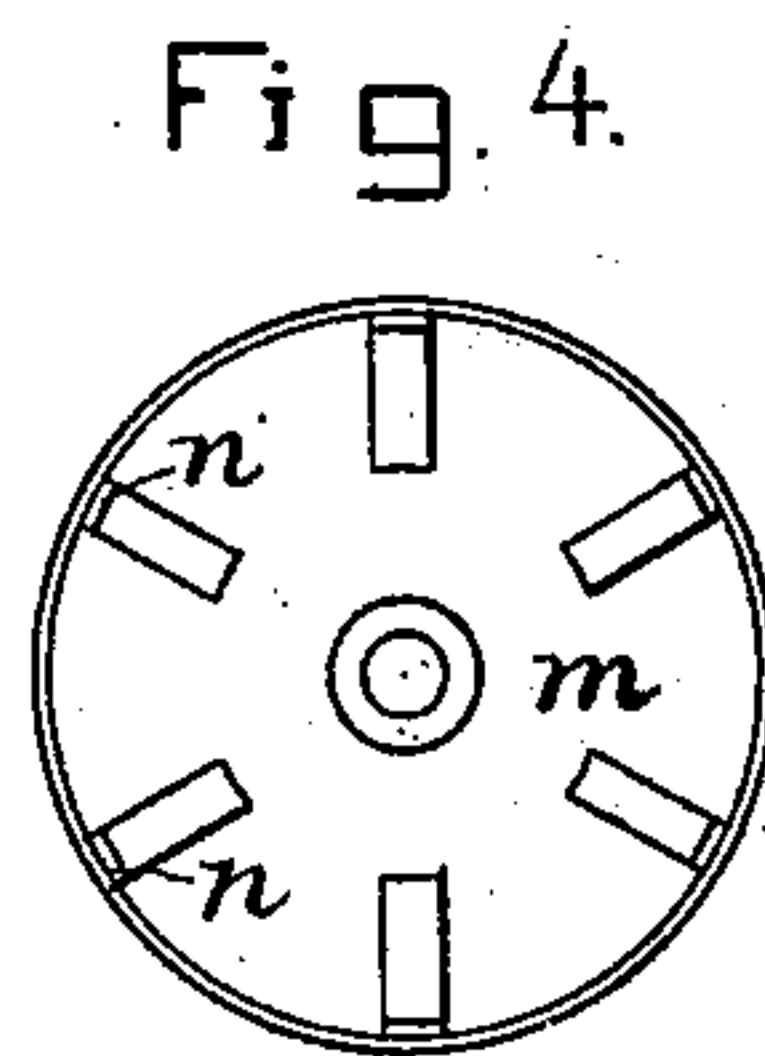
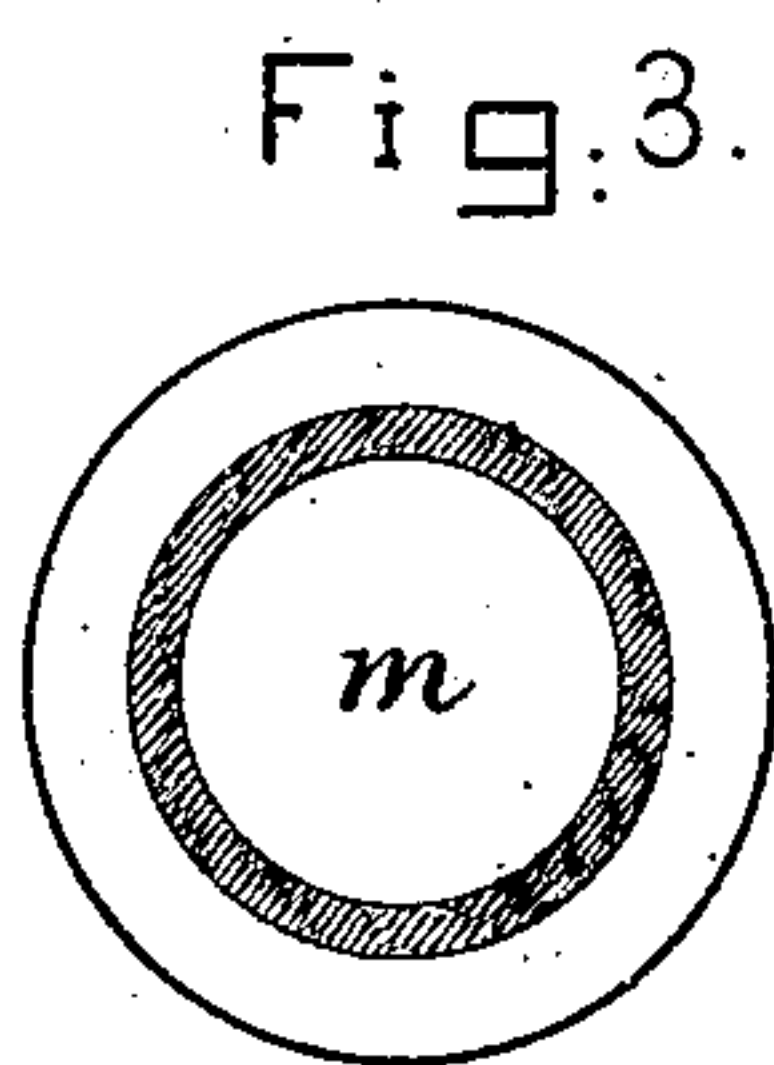
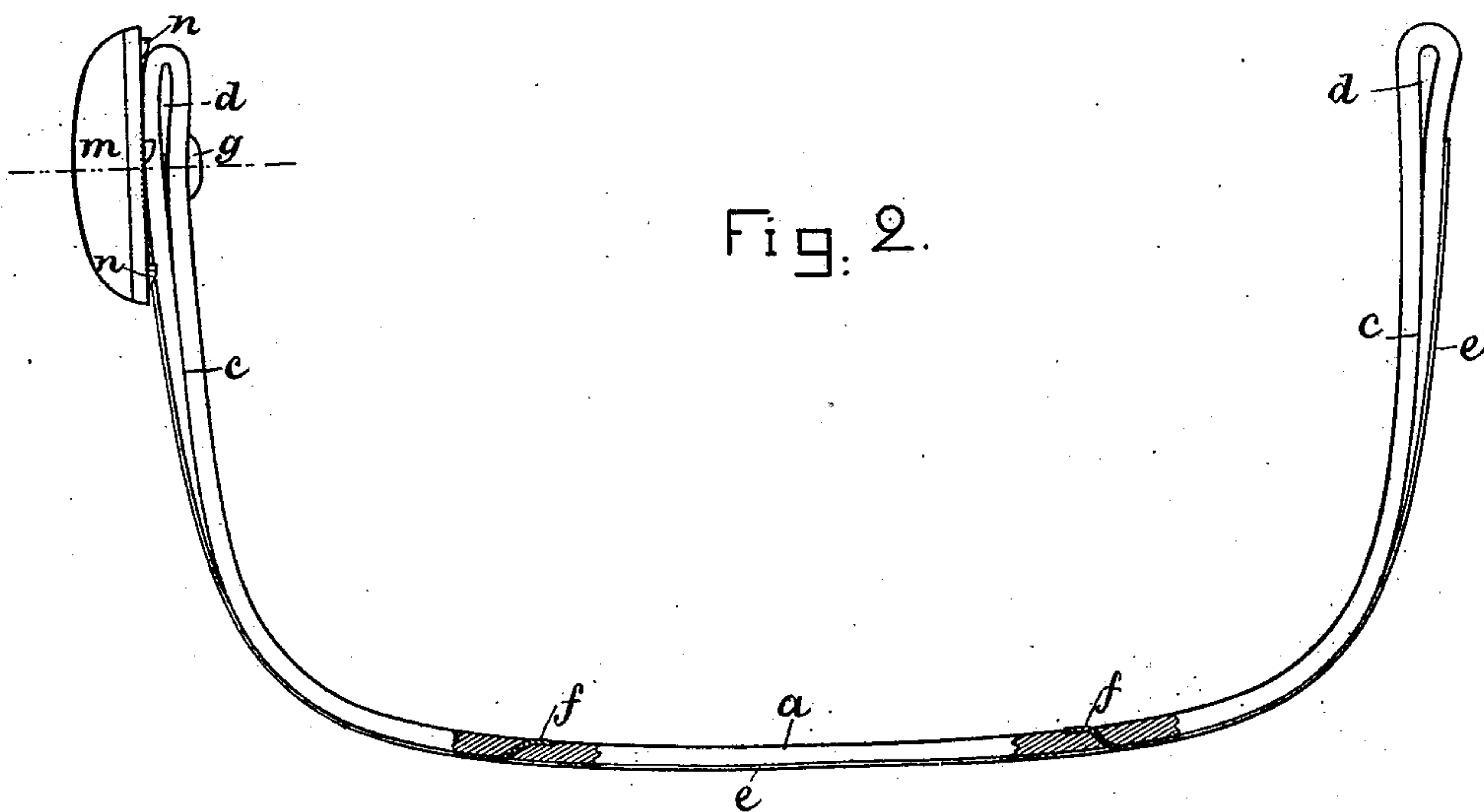
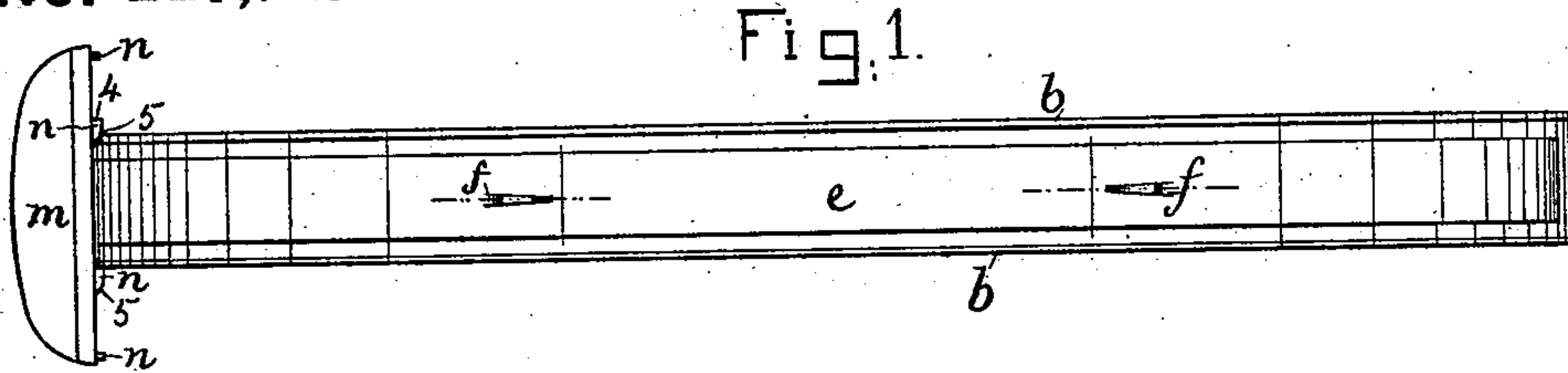


(Model.)

J. F. SULLIVAN.
Brow-Band for Bridles.

No. 227,188.

Patented May 4, 1880.



Witnesses:

Jos. P. Livermore,
L. F. Connor.

Inventor:
James F. Sullivan.
by Crosby & Gregory,
Attys.

UNITED STATES PATENT OFFICE.

JAMES F. SULLIVAN, OF FITCHBURG, MASSACHUSETTS.

BROW-BAND FOR BRIDLES.

SPECIFICATION forming part of Letters Patent No. 227,188, dated May 4, 1880.

Application filed March 1, 1880. (Model.)

To all whom it may concern:

Be it known that I, JAMES F. SULLIVAN, of Fitchburg, county of Worcester, State of Massachusetts, have invented an Improvement in Brow-Bands for Horses, of which the following description, in connection with the accompanying drawings, is a specification.

My invention relates to brow-bands or "fronts" for horses; and it consists in a novel method of attaching the ornamental metallic strip to the leather band, and also in a metal rosette secured to the band by a threaded bolt, and provided with teeth to engage the metal strip and prevent the rosette from becoming accidentally detached and lost.

The metallic strip has usually been attached to the leather by rivets or by metal studs soldered to the said strip, which are liable to become broken and allow the metal strip to hang down away from the leather band, giving an untidy appearance.

Figure 1 is a front view of my improved brow-band; Fig. 2, a top view thereof, partly in section; Figs. 3 and 4, upper and under side views, respectively, of the rosette detached; and Figs. 5 and 6, details to be referred to.

The main band *a* is formed of a single piece of leather, which is passed through a former, which makes the beads *b b* at its edges. The ends of the piece are turned back and sewed to the main strip at *c*, forming the loops *d*, which are left of considerable length, for a reason hereinafter referred to.

The metal strip *e* has struck up between its ends one or more V-shaped tongues, *f*, preferably, as shown, two in number, with their points in opposite directions. These points inserted in small holes in the leather band, and bent down inside of said band, fasten the metal strip securely to the leather band at its front portion, as shown in Fig. 2.

The ends of the metal strip are perforated with several holes, 2, (shown in Fig. 5,) under one of which the leather is also perforated to receive a bolt, *g*.

The proper hole in the metal strip is chosen with a view to the size of the horse's forehead, and it is for this reason that the loops *d* are left sufficiently long to meet any case.

The head of the bolt *g* is provided with prongs 3 to enter the leather, to prevent it from turning when the rosette *m*, preferably of cast metal, is screwed thereon, as shown in section, Fig. 6. This rosette *m* is provided with teeth *n* on its under side at sufficient distance apart to allow the metal strip to lie between any two consecutive teeth. The rear sides, 4, of these teeth, speaking with relation to their movement while the rosette is being turned on, are at right angles to the face of the rosette, while their front sides, 5, are preferably inclined. In screwing the rosette on, these teeth force the metal strip aside as they pass over it, and it snaps up between each pair of teeth by its elasticity. When screwed in place one of the teeth will rest against the edge of the strip and prevent the rosette from unscrewing.

When desired to unscrew the rosette the band may be sprung aside out of reach of the teeth, and it is obvious that it may be screwed on in this way if the teeth are not inclined at their front edge.

When screwed down the rosette holds the ends of the leather band and metal strip firmly together.

I am aware metal pieces to be screwed upon a leather surface have been provided with sharp teeth on their under surface to press into the leather and prevent their unscrewing; but if such are often unscrewed they will soon cut a groove in the leather and no longer hold.

I claim—

1. In a brow-band for horses, a threaded bolt to pass through the said band and a rosette to be screwed thereon, provided with teeth on its under edge a sufficient distance apart to allow the band to lie between two teeth and be engaged at its edge by one of them, substantially as described.

2. A brow-band composed of a band of leather folded to make loops at its ends, a metal strip with tongues to secure its middle portion to the leather band and a series of holes at each end, and a bolt to pass through the leather band and one of said holes, and a rosette to be screwed upon the said bolt, substantially as and for the purpose set forth.

3. The strip *a*, provided at its ends with
loops, and the metal strip provided at each
end with a series of holes, combined with the
bolt to be inserted through the said strip
5 and the rosette threaded to be screwed upon
the said bolt, as and for the purpose described.
In testimony whereof I have signed my name

to this specification in the presence of two
subscribing witnesses.

JAMES FRANCIS SULLIVAN.

Witnesses:

WILLIAM H. JOSEPH,
HENRY JACKSON.