No. 882,171. PATENTED MAR. 17, 1908.

G. SCHOENNER.

COMPASSES.

APPLICATION FILED NOV. 28, 1906.

Fig. 1.

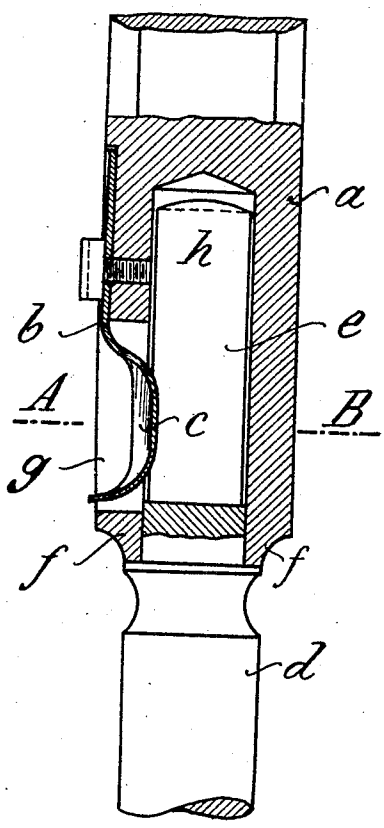


Fig. 2.

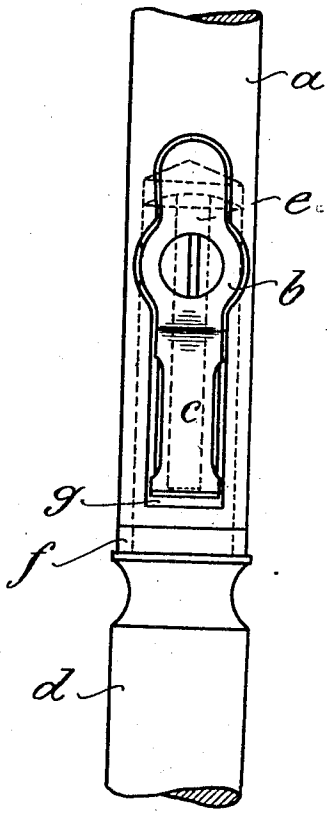
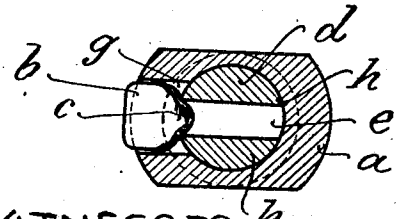


Fig. 3.



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GEORG SCHOENNER, OF NUREMBERG, GERMANY.

COMPASSES.

No. 882,171. Specification of Letters Patent. Patented March 17, 1908.

Application filed November 28, 1906. Serial No. 345,543.

To all whom it may concern:

Be it known that I, GEORG SCHOENNER, manufacturer, subject of the German Emperor, residing at Nuremberg, Bavaria, Germany, have invented new and useful Improvements in Compasses, of which the following is a specification.

This invention relates to those compasses in which the clamping fast of the attachments in the socket of the compass leg is operated by means of a spring. In such compasses the attachment is usually secured against turning by means of a special device, for instance, a projection or the like formed on the attachment engaging in a slot in the socket. As compared with this arrangement the object of the present invention represents a simplification inasmuch as the clamping spring also serves for securing the position of the attachment. This is attained by a peculiar shape and arrangement of the spring, by means of which it curves inward through a slot in the socket and presses on the pin of the attachment, while a protuberance formed in the spring engages in the slot of the insertion.

One form of construction of a suitable means of securing the insertion in compasses, is shown as an example in the accompanying drawings, in which:—

Figure 1 is a longitudinal section; Fig. 2, an elevation of the holder or socket; and Fig. 3, a cross section on the line A—B of Fig. 1.

A flat spring *b* is screwed firmly onto the socket *a*, which spring is bent longitudinally in a U-form, and on the side facing the attachment *d* provided with a small bulge *c*. In the wall *f* of the socket *a* there is a slot *g* through which the U-shaped part of the spring passes. The attachment *d* is provided with a slot *e* so that two spring lugs *h* are formed which hold it in the socket and assist the clamping action of the spring *b*. The bulge *c* enters the slot *e* and prevents any turning movement of the attachment, while the parts of the spring on both sides of the bulge bear firmly on the edges formed by the slot in the attachment, and hold the latter firmly.

I declare that what I claim is:—

A compass having a socket on one of its legs, said socket having a slot therein, a plate-spring on the leg extending into the slot and into which a boss is pressed, so that a nipple is created and an attachment having a slot therein with which the nipple engages, so that the attachment when being introduced into the socket is guided by the nipple and insured against turning.

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

GEORG SCHOENNER.

Witnesses:
LEONHARD KOERBER,
HERMANN DOEHLEMANN.