H. COLOMB.

DIAL FASTENER.

APPLICATION FILED JULY 12, 1920.

1,400,421. Patented Dec. 13, 1921.

Fig. 1.

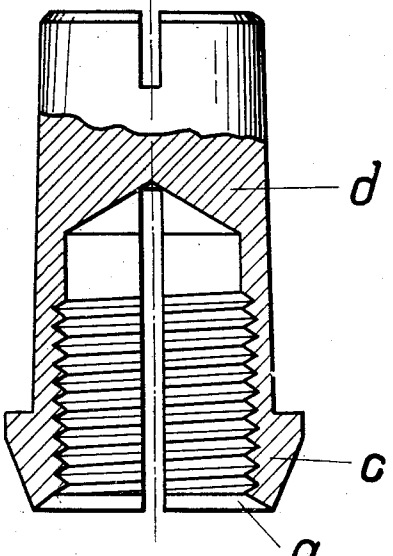
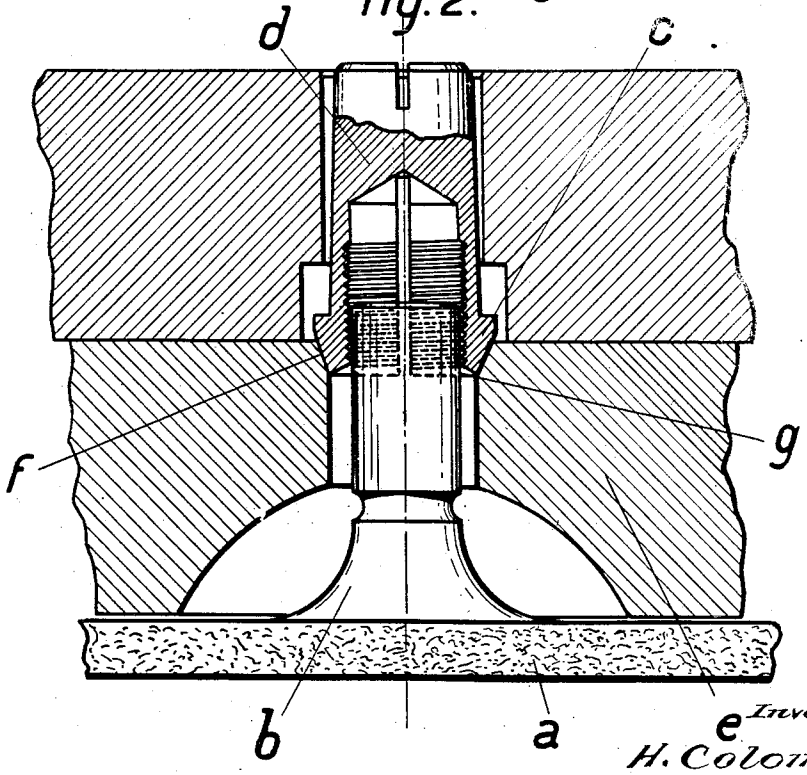


Fig. 2.



Inventor.
H. Colomb.
by Louisie
Atty.

UNITED STATES PATENT OFFICE.

HENRI COLOMB, OF TAVANNES, SWITZERLAND.

DIAL-FASTENER.

1,400,421. Specification of Letters Patent. Patented Dec. 13, 1921.

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To all whom it may concern:

Be it known that I, HENRI COLOMB, a citizen of the Republic of Switzerland, residing at Tavannes, Switzerland, have invented certain new and useful Improvements in Dial-Fasteners, of which the following is a specification.

The object of the present invention is a means for fixing the dials of watches, clocks and the like which comprises one or more split nuts having a conical shoulder, cooperating with a conical recess in the inner face of the case plate, so as to cause the thread to bite in the material forming the foot of the dial as it is screwed upon the said foot, in proportion to its advance thereon, the shoulder of the nut serving also to center it within the said recess.

The preferred form of the invention is illustrated by way of example in the accompanying drawing in which—

Figure 1 illustrates a split nut partly in section, and

Fig. 2 represents an axial section of the complete arrangement on a smaller scale than Fig. 1.

In the drawings, the dial *a* carries one or more feet *b* each of which is fixed as usual and traverses the case-plate *e* by means of a hole of considerably larger diameter than that of the foot. The upper part of this hole is slightly enlarged or beveled as shown at *f* to receive the conical shoulder *c* of a split nut *d* having a fairly sharp triangular thread and adapted to be operated by a screw-driver. At the commencement of the pitch of the thread, the bore of the nut is slightly chamfered as shown at *g* so that there is no difficulty in placing it on the extremity of the foot *b*, as a light pressure by means of the screw-driver expands the edge of the nut slightly and facilitates the introduction of the foot. As the nut is rotated, its thread bites in the material of the foot and owing to the engagement of the conical portion *c* with the conical screw *b* of the case-plate, is pressed increasingly into the material of the foot which is gradually secured with an extremely sure grip.

If desired, the holes of the plate through which the feet pass may be given a diameter sufficiently large that if the said feet are not accurately placed, they may be set within the holes by suitably inclining their axes. For this purpose, the feet of the dial are formed with a light groove permitting them to be oriented according to need.

I claim:—

1. The means for fastening dials comprising a dial, feet extending rearwardly of said dial, a case-plate having holes to receive said feet, said holes being of larger diameter than said feet, the rearward edges of said holes being beveled outwardly, a split nut screwed on each of said feet, said split nut having an external conical shoulder engaged by the bevel of the hole in the case-plate so as to press the said nut upon the pin as it advances and cause it to bite a thread into the material of the corresponding foot.

2. Means for fastening dials comprising a dial, feet extending rearwardly of said dial, a case-plate having holes to receive said feet, said holes being of larger diameter than said feet, the rearward edges of said holes being beveled outwardly, a split nut screwed on each of said feet, said split nut having an external conical shoulder engaged by the bevel of the hole in the case-plate so as to press the said nut upon the pin as it advances and cause it to bite a thread into the material of the corresponding foot, the bore of the said nut being chamfered to facilitate its being placed upon the foot.

3. Means for fastening dials comprising a dial, feet extending rearwardly of said dial, a case-plate having holes to receive said feet, said holes being of larger diamamter than said feet, the rearward edges of said holes being beveled outwardly, a split nut screwed on each of said feet, said split nut having an external conical shoulder engaged by the bevel of the hole in the case-plate so as to press the said nut upon the pin as it advances and cause it to bite a thread into the material of the corresponding foot, the bore of the said nut being chamfered to facilitate its being placed upon the foot and the feet being formed to permit a slight bending thereof in order to permit accurate engagement between said split nut and feet.

4. A combination with a dial having feet adapted to coöperate with openings formed in a case plate of a split nut interiorly threaded to engage the upper end of the feet, and coöperating means on the case plate and nut to cause the threads on the nut to bite into the engaged foot of the dial with increasing pressure as the nut is advanced.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

HENRI COLOMB.

Witnesses:
E. PAVKD,
M. RUYNER.