W. TAYLOR.

STUD, SOLITAIRE, OR THE LIKE.

APPLICATION FILED SEPT. 13, 1912.

**1,067,155.** Patented July 8, 1913.

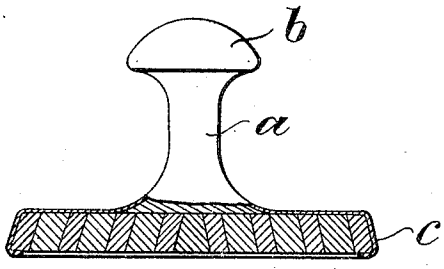



Fig. 1.

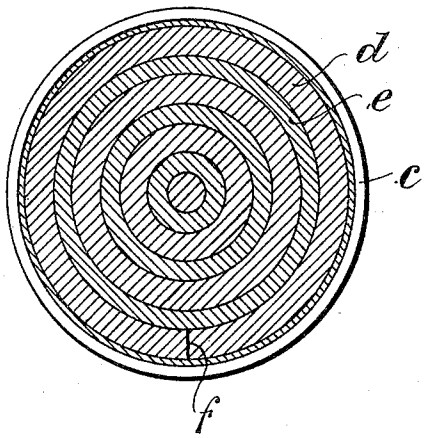



Fig. 2.

Witnesses.
H. A. Williams
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Inventor:
William Taylor
per Thos. Prince
his Attorney.

# UNITED STATES PATENT OFFICE.

WILLIAM TAYLOR, OF LONDON, ENGLAND, ASSIGNOR OF ONE-HALF TO WILLIAM GREENWELL HOLLINWORTH, OF LONDON, ENGLAND.

## STUD, SOLITAIRE, OR THE LIKE.

1,067,155. Specification of Letters Patent. Patented July 8, 1913.

Application filed September 13, 1912. Serial No. 720,266.

*To all whom it may concern:*

Be it known that I, WILLIAM TAYLOR, a subject of the King of Great Britain, residing at London, England, have invented certain new and useful Improvements in Studs, Solitaires, or the Like, of which the following is a specification.

This invention relates to that type of stud, solitaire or the like the base of which is provided with concentric rings of different forms of metal or other materials, such as copper and zinc, capable of forming a galvanic couple in the presence of moisture exuded by the skin of the wearer.

The object of the present invention is to enable the strips to be very quickly and yet securely forced into the base of the stud, so as to facilitate manufacture, and prevent loosening of these strips when in use.

According to the present invention the strips of metal are made of wedge form, so that when assembled together and forced into a suitable frame formed by or on the base of the stud, they are wedged closely together and are bound or keyed firmly in position.

The accompanying drawing illustrates on an enlarged scale one form of stud according to the invention, Figure 1 being an elevation partly in section, and Fig. 2 a sectional plan.

In carrying out the invention according to one form the stud *a*, which may have any usual form of head *b*, is provided with a base having a clamping rim or flange *c*. Within this rim or flange a number of strips *d*, *e*, are arranged, these strips *d*, *e*, being alternately of different metals, such as copper and zinc, adapted, when in the presence of moisture, to set up a galvanic couple. The strips *d*, *e*, are of wedge shape as will be seen in cross-section in Fig. 1. When the strips are of circular form as in the case illustrated the wedge form is obtained by making them conical. They may be either of complete circular form or may be split as indicated, for example, at *f*. The rim or flange *c*, is also preferably undercut or conically formed on its inner surface with the result that when all these strips are assembled together and forced into the rim they are wedged tightly together, so that they are bound or keyed within the rim.

I claim:

1. A stud, solitaire or the like, having a base, a flange on said base and wedge shaped ribs of different metals forced into this base inclosed by said flange, said wedge shaped ribs being arranged side by side and forming a solid mass in the base, substantially as and for the purpose hereinbefore set forth.

2. A stud, solitaire or the like having a circular base, a flange on said base, a number of circular strips of different metals, said strips being of conical form and adapted to be forced into the space inclosed by the aforesaid flange, substantially as and for the purpose hereinbefore set forth.

3. A stud, solitaire, or the like having a circular base, a flange on said base, a number of concentric rings of different metals, arranged side by side and forming a solid mass in the base, said rings being of conical form and being split and adapted to be forced into the space inclosed by the aforesaid flange, substantially as and for the purpose hereinbefore set forth.

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

WILLIAM TAYLOR.

Witnesses:
A. R. MOODY,
B. CLARK.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."