

(No Model.)

J. C. W. JEFFERYS.

BUTTON.

No. 335,226.

Patented Feb. 2, 1886.

FIG. 1

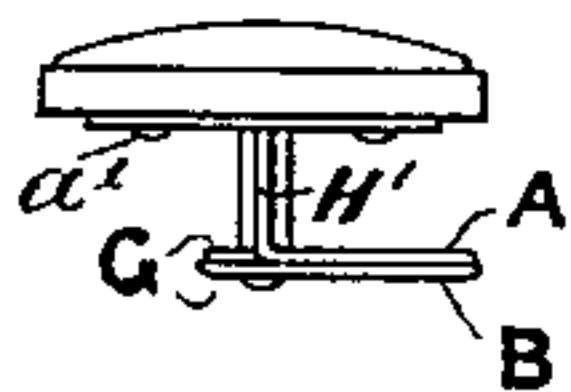


FIG. 6

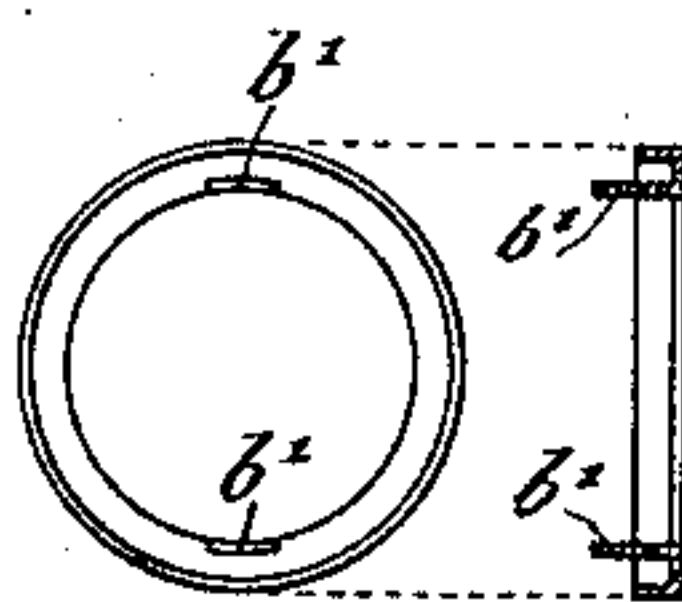


FIG. 7

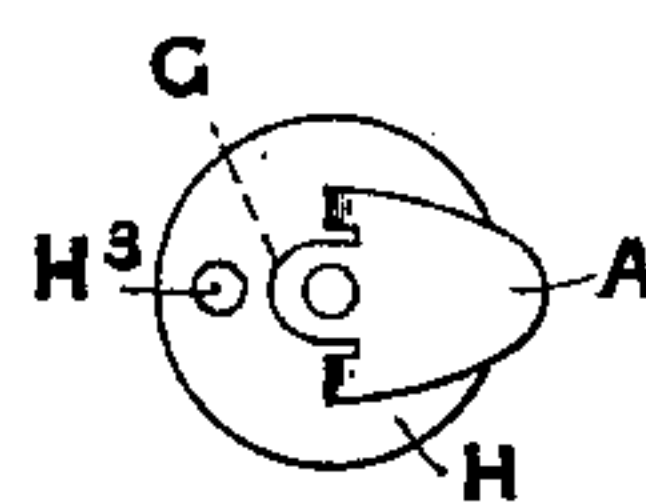


FIG. 7^A

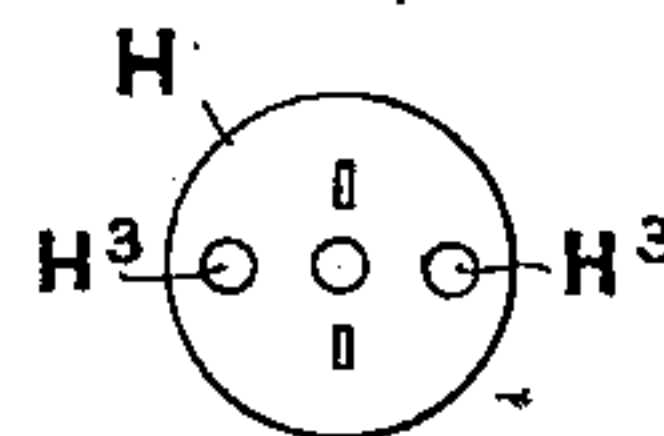


FIG. 2

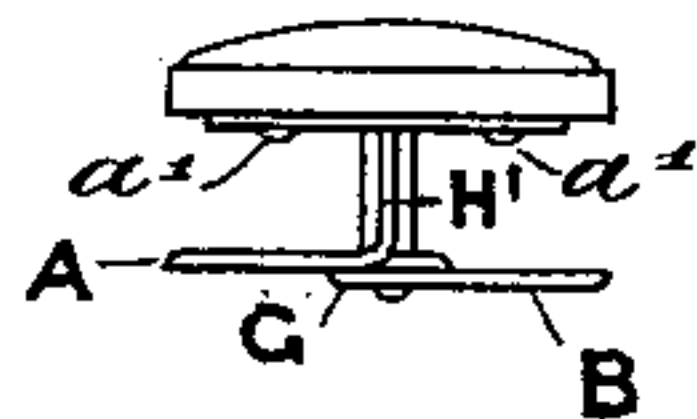


FIG. 5

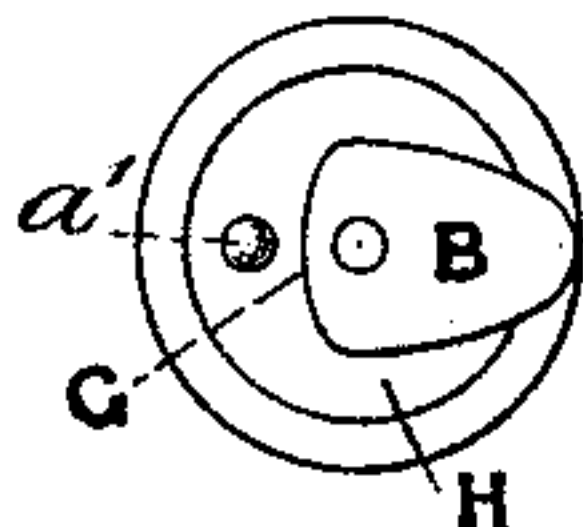


FIG. 8

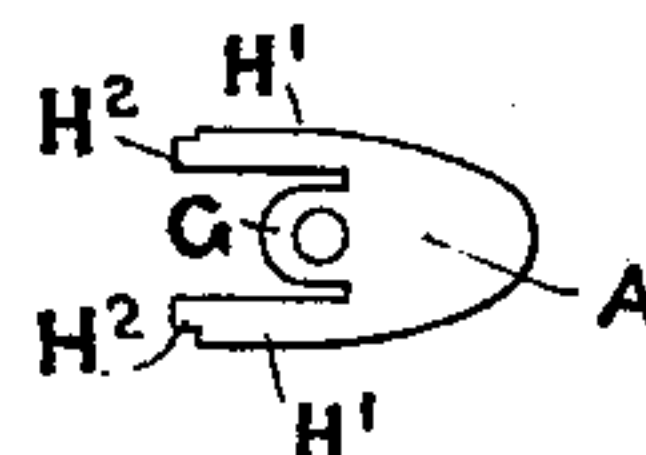


FIG. 3

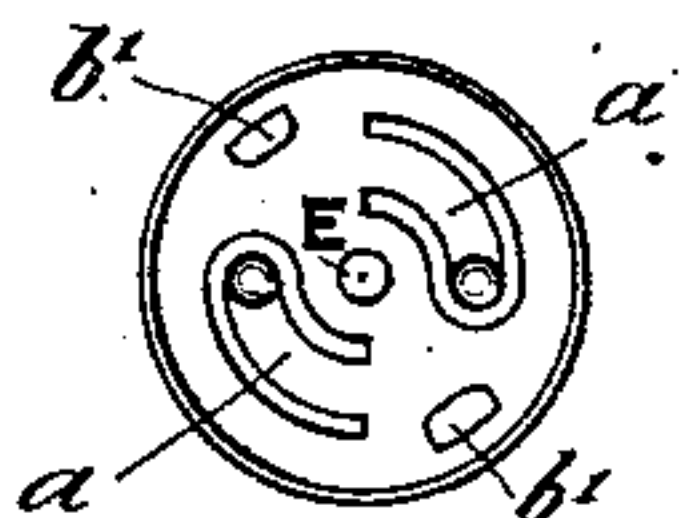


FIG. 4

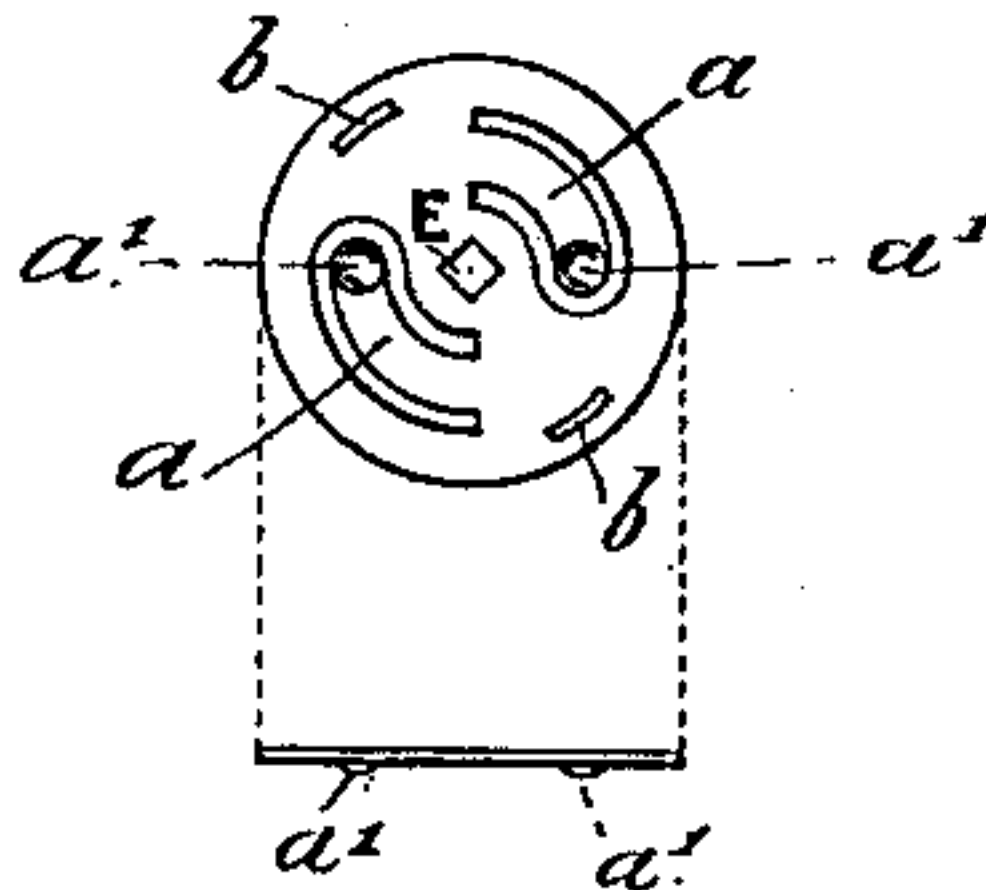
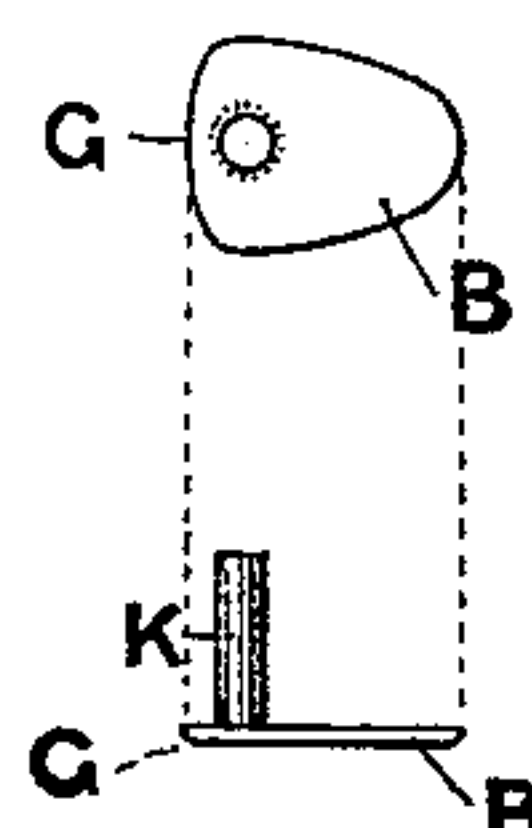


FIG. 9



WITNESSES.

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BUTTON.

SPECIFICATION forming part of Letters Patent No. 335,226, dated February 2, 1886.

Application filed July 6, 1885. Serial No. 170,744. (No model.) Patented in England November 19, 1884, No. 15,213.

To all whom it may concern:

Be it known that I, JOHN COMPTON WEEKS JEFFERYS, a subject of Her Britannic Majesty, of 19 Hargrave Park Road, in the county of Middlesex, England, manufacturing jeweler, have invented certain new and useful Improvements in Studs, Solitaires, and such like Articles; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to and consists of an improvement in connection with an invention for which I have obtained British Letters Patent bearing date the 13th day of December, 1876, and numbered 4,811, the specification whereof directs to fix a pillar to a stud or solitaire, preferably flat or oval, at bottom of which is placed a circular, oval, or similarly-formed plate, the pillar being soldered or otherwise attached near edge of circumference of same plate, that part of the plate being the exact width of said flat pillar. Thereby one side of the pillar will have nearly a circular or oval plate, and the other side only a small lip or heel or part of the same plate extending out on the opposite side of pillar to that on which the plate extends. This arrangement allows by its simplicity the larger side plate to be inserted into button-hole first, then permitting the lip, heel, or smaller side plate or heel to be easily forced at pleasure in or out of the button-hole.

In carrying my invention into practice I stamp the parts which are to work in relation and combination with one another in such wise that they will correspond with each other, so as to be readily fitted without further manipulation (after having brought the parts together) than will suffice to rivet or solder the connected parts, and such rivetings or solderings are, from the character of the parts employed, very few and simple; but a very complex combination, but of simple movement, is arrived at in the finished stud, solitaire, button, brooch, or other fastening or ornamental device.

According to this present invention I place a fac-simile plate, round, oval, or otherwise, underneath the bottom plate of the stud, the same

being movable by rotating the top of the stud by means of a connecting wire pillar passing centrally through the parts of the above-mentioned flat pillar, the wire pillar being fixed to the top of stud and to the underneath plate. The pillar being flat, it leaves the ends of button-hole extended, so that only force on the lip or heel side of the plate can remove it, and secures that it will remain in position till locked or unlocked by turning the top of stud to the right or left, there being a stop spring-plate to regulate same motion, and said spring-plate is affixed by two ears stamped out of the button-head plate, which said ears pass through slots in the spring-plate. Working in combination with this spring-plate is another plate, to which the flat pillar is riveted. Thus the flat pillar and its plate are movable around the wire pillar, except when arrested by the spring. Now, when the flat pillar is within the button-hole it cannot turn; but the head of button, the spring-plate and its wire pillar, and its lower plate or arm are riveted together by the riveting of the wire pillar above and below. Therefore when the button-head is turned around the lower plate or arm will be moved around, so as to occupy a position opposite to the lower plate or arm on the flat pillar, so locking the stud in position. A dwell or stop is provided in the top plate of the flat pillar, into which the spring will engage, so that the head of solitaire may not be turned too far, and an indication will be given by click of spring showing when fastened and unfastened. This stop can be made inside or outside of plate at pleasure by arranging for same. Be it understood the spring itself is no novelty, except so far as used for and applied to the invention here claimed. The pillar of solitaire being flat or oval, every design, whether square form or otherwise, or the device for ornament for top of solitaire, can be always normal in its position.

In order that my invention may be readily understood, I have annexed hereto a sheet of drawings, showing the parts and construction.

Figure 1 represents the solitaire or stud ready for insertion into button-hole of cuff or fabric, with lip or heel marked G. Fig. 2 shows the solitaire fastened after the arms A B have

been opened by rotating the stud or solitaire from top. Fig. 3 is a plan of inside of head-plate of solitaire, (the ornamental portion removed,) and shows the spring-plate and spring-fingers *a*, as also where the connecting wire pillar is riveted at center E. Fig. 4 shows the spring-plate removed, *a'* being stamped-up domes in the ends of the spring-fingers *a*, and *b* are slots to receive the ears of the head-plate, Fig. 6. Fig. 5 shows the underneath view of solitaire with lip or heel G to the lower plate or bottom arm, B. Fig. 6 represents the head-plate of solitaire with its ears *b'*, which are to take into slots *b* of Fig. 4, and are then turned down, as in Fig. 3, to fasten the spring-plate, Fig. 4, to the head-plate, Fig. 6. Figs. 7 and 7^a represent the flat pillar-plate H; and Fig. 8 the form of the flat pillar H', and the arm A and the heel G, all stamped in a piece before the arms H are bent up to form the pillar. The extremities H² of the arms are formed in the same operation of stamping, and pass into holes provided in plate H, Fig. 7^a, and are there riveted, so forming the piece, Fig. 7. There is a central hole formed in plate H, and also in the piece, Fig. 8, through which the wire pillar K, Fig. 9, passes and works. The holes H³ in plate H, Fig. 7^a, receive the domes *a'* of the spring-fingers *a* when the button has been turned either into its normal open position, Figs. 1 and 3, or into its locked position, Fig. 2. Fig. 9 shows in plan and side views the wire pillar K, with the arm B riveted thereto. In further fitting the parts together, the wire pillar K is passed up through the central holes of the piece, Figs. 7 and 7^a, and into the central hole, E, of Fig. 4, and is there riveted, as is shown in Fig. 3.

The action of locking and unlocking the parts A and B is performed by rotating the top of stud to right or left.

It will be seen from the foregoing description and drawings that should the plate B by accident or violence become displaced, the parts are still held together by riveting the ends H² of the flat pillar and arm B to pillar-plate H, and the riveting at E and all the securing parts are so disposed that they cannot be accidentally interfered with, and they support each other.

The forcing into or out of the button-hole of the lip or heel G will be readily effected without damage or creasing of the button-hole, and if even it be neglected to lock the solitaire, stud, or fastening, the same will be retained in the button-hole by reason of said lip or heel G, in combination with the arm or arms A B, lying under the material.

Having fully described my invention, what I desire to claim and secure by Letters Patent is—

In a solitaire, stud, or such like article, the plate or foot A, provided with the hole concentric with the pivot-line of the stud, the supports H', having shoulders H², and heel G, the heel and plate or foot A being constructed integrally, as shown, and combined with the central pillar, K, of the stud, carrying the arm B, said pillar K being riveted at E to the spring-finger plate *a a' b*, operating in combination with the plate H, having holes H³, said spring-plate being attached to the head of the stud, solitaire, button, or other article, substantially as at *b'*, or forming part of said head, the whole constructed, combined, and operating as and for the purpose herein set forth.

June 18, 1885.

JOHN COMPTON WEEKS JEFFERYS.

Witnesses:

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WILLIAM BARNETT,

Both of 12 Abchurch Lane, London.