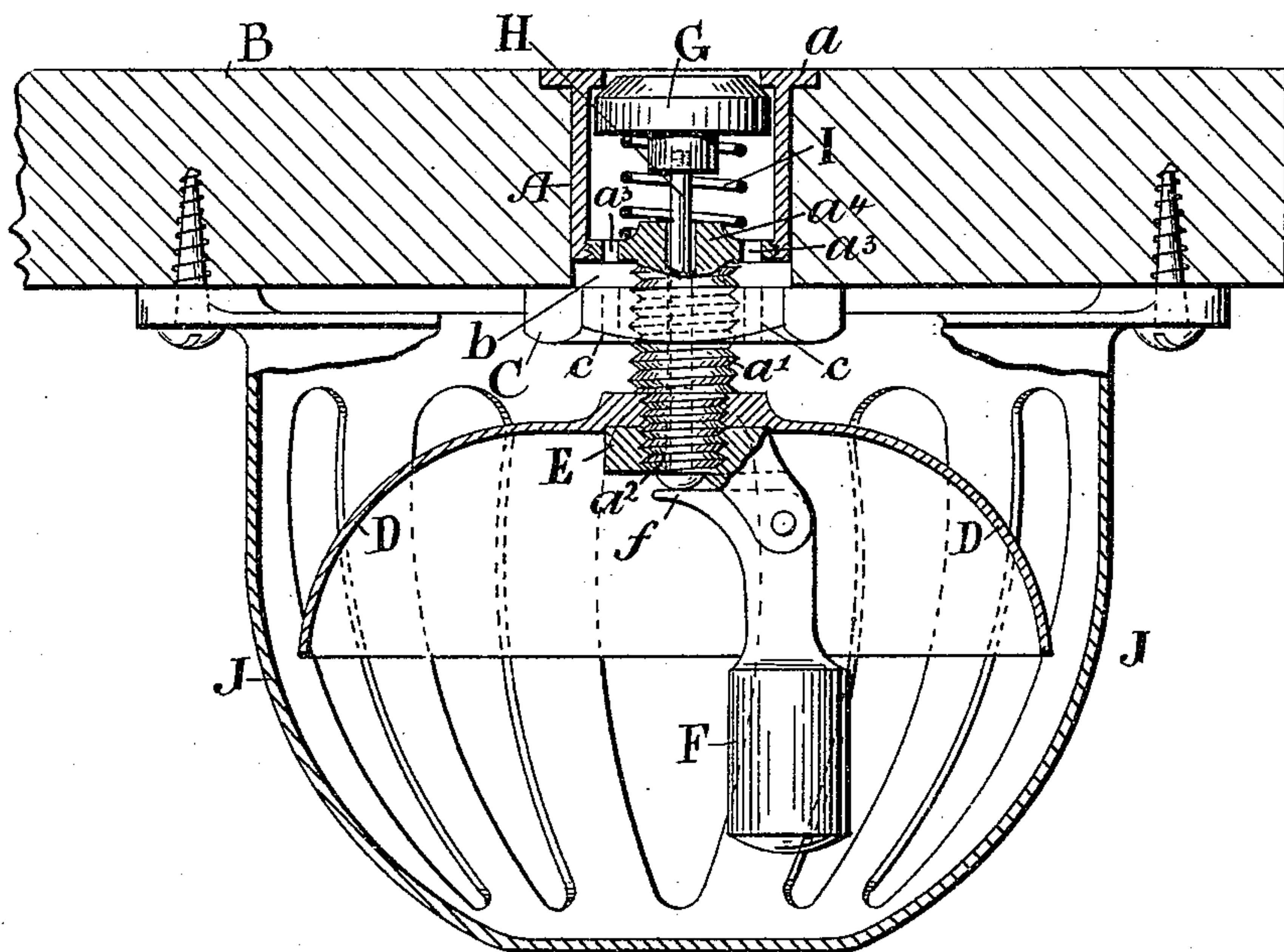


(No Model.)

D. BROWN.
CALL BELL.

No. 466,116.

Patented Dec. 29, 1891.



WITNESSES:

Arthur B. Crossley
Ernest P. Newton

INVENTOR:

David Brown
by Herbert W. Jenner. Att'y.

UNITED STATES PATENT OFFICE.

DAVID BROWN, OF HUDDERSFIELD, ENGLAND.

CALL-BELL.

SPECIFICATION forming part of Letters Patent No. 466,116, dated December 29, 1891.

Application filed September 19, 1891. Serial No. 406,272. (No model.) Patented in England May 11, 1889, No. 7,902.

To all whom it may concern:

Be it known that I, DAVID BROWN, a citizen of Great Britain, residing at Huddersfield, in the county of York, England, have invented certain new and useful Improvements in Call-Bells, (for which I have obtained a patent in England, No. 7,902, dated May 11, 1889;) and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to call-bells, and chiefly to an improved mode of fixing the same.

The ordinary portable call-bell, which usually stands on a table, desk, or other article of furniture, or generally in a convenient position for use, is frequently found to be in the way of articles that have to be moved about on the said pieces of furniture and is often knocked over and accidentally rung.

According to my said invention, instead of allowing the call-bell to stand upon the table, desk, counter, or other article of furniture, I fix it permanently underneath the said piece of furniture, and I arrange that the push or button of the bell shall pass through a hole formed in the said piece of furniture and rest about level with the top thereof. By this arrangement the bell push or button always remains in a handy position for being touched, while forming no obstruction to the movement of articles on the piece of furniture, and the bell is, moreover, safe from pilfering or ordinary damage. I may inclose the bell in a case to prevent its being tampered with. One of the advantages possessed by my bell fixed as above described is that being out of sight it need only be constructed of the cheapest materials and finished in the plainest style, thus costing much less than a bell that is exposed to view. It moreover requires, on the same account, less cleaning. My improved bell may also be applied to doors.

In the accompanying drawing I have shown how my invention may be conveniently and advantageously carried into practice.

The drawing represents, partly in elevation and partly in vertical central section, a bell constructed and fixed according to my said invention.

A is a socket having an external flange a at its upper end and a screwed stud a' at its

lower end. The said socket is let into a hole b , formed in a convenient position in the top B of the table, desk, counter, or other article of furniture, and is secured by a nut C on the under side, which fits on the screwed stud a' and screws against the under side of table B. The flange A not only forms a support for the socket, but in cases where there is a permanent covering of oil-cloth or other material on the table, counter, or other piece of furniture to which the socket is applied serves to hold the edge of the said covering around the hole b . At the end of the screw-threaded stud a' is formed a smaller screw-threaded section a^2 for receiving the bell D, which is secured by nut E against the shoulder formed by the part a' . The hammer F is suspended from a wing on the nut E and is actuated in the ordinary manner by a push-button G, working in the socket and which is screwed on a central pin H, passing down through the socket and resting on the tongue f of the hammer. The head of the pin H abuts against the lower face of the nut E and prevents withdrawal of the push-button, and, moreover, the push-button cannot be accidentally or maliciously unscrewed from the pin, as the latter turns readily with the push-button. I prefer to use a spiral or other spring, which I place underneath the push-button G to assist in raising the said push-button after it has been depressed.

J is a cage or casing secured to the under side of the top B, forming a covering for the bell to prevent the latter being tampered with. I prefer to provide holes a^3 in the lower end of the socket A and corresponding holes c in the nuts C to allow of the escape of any liquid which may accidentally enter the socket or to provide for flushing the socket with water to clear it of dirt. I also form a central nipple or boss a^4 in the socket to prevent the passage of any liquid down the central aperture around the spindle H to the working parts of the bell.

I claim as my invention—

1. In a call-bell, the combination, with a fixed support, such as a table-top, provided with a hole, of a socket secured in the hole and provided with a centrally-arranged projection, a bell secured on the said projection, and a push-pin passing through the said pro-

jection and provided with a push-button working within the said socket, the said push-pin being adapted to actuate the bell-hammer, substantially as set forth.

5 2. In a call-bell, the combination, with a support provided with a hole, of a socket let into the hole and provided with a flange at the top and a centrally-arranged projection at its lower end, a nut screwed on the said
10 projection for securing the socket, a bell secured on the said projection below the said nut, and a push-pin passing through the said projection and provided with a push-button working within the said socket, substantially
15 as and for the purpose set forth.

3. In a call-bell, the combination, with a support provided with a hole, of a socket let

into the hole and provided with a perforated bottom, an upwardly-projecting central boss and a projection below the said boss, a perforated nut screwed on the said projection for
20 securing the socket, a bell secured on the lower end of the said projection, and a push-pin passing through the said boss and projection and adapted to actuate the bell-ham-
25 mer, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

DAVID BROWN.

Witnesses:

ARTHUR BENJAMIN CROSSLEY,
Market Place, Huddersfield.

DAVID J. BAILEY,
Solicitor, Huddersfield.