

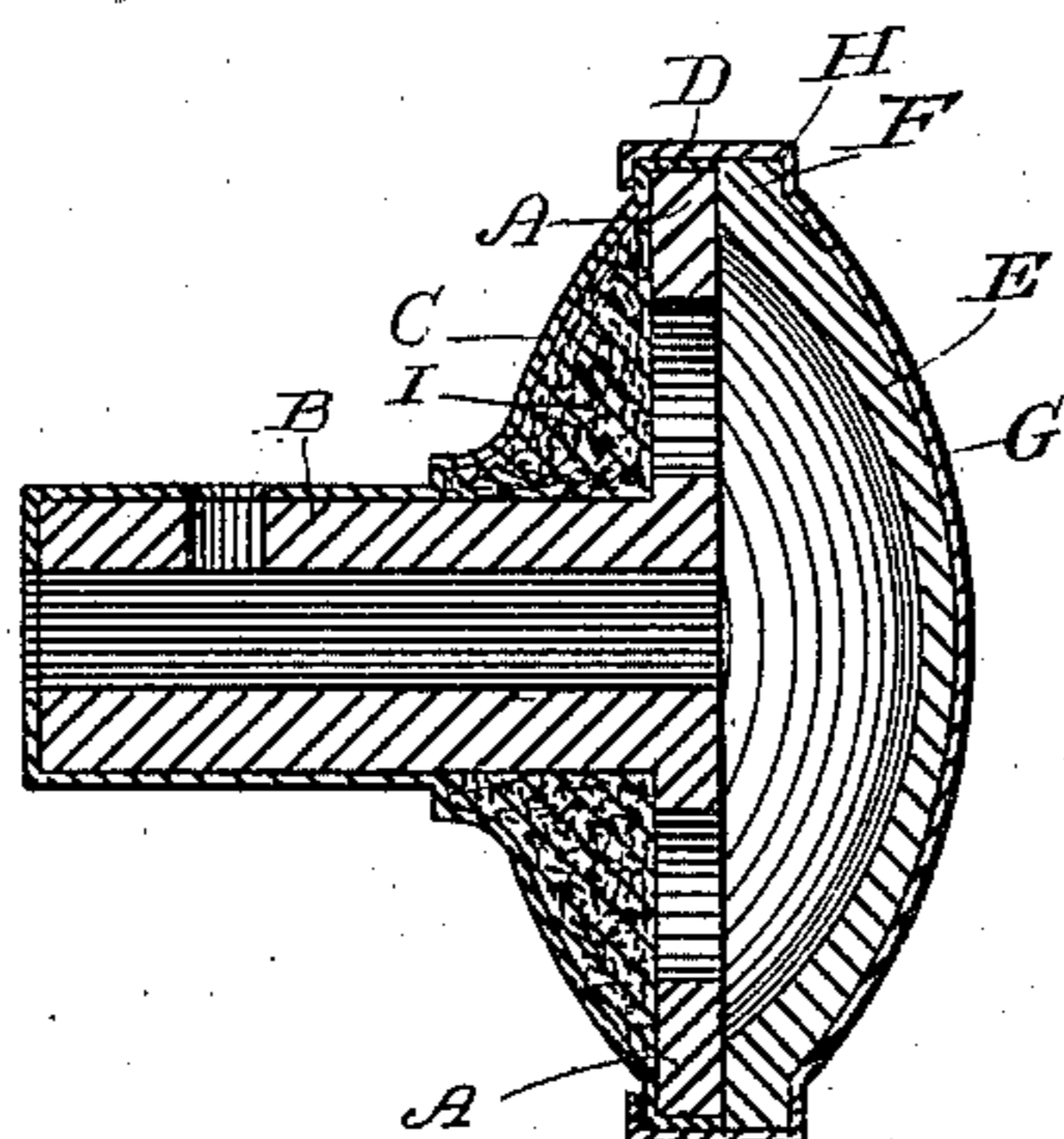
(No Model.)

W. I. ALVORD.

DOOR KNOB.

No. 305,652.

Patented Sept. 23, 1884.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLISTON I. ALVORD, OF BRIDGEPORT, CONNECTICUT.

DOOR-KNOB.

SPECIFICATION forming part of Letters Patent No. 305,652, dated September 23, 1884.

Application filed February 4, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLISTON I. ALVORD, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Door-Knobs; 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 certain novel and useful improvements in door-knobs, and has for its object to afford a simple and economical construction, while at the same time the front portion of the knob shall be so formed that it is not likely to become indented or marred while in use; and with these ends in view my invention consists in the details of construction and combination of elements hereinafter fully and in detail explained, and then specifically designated by the claim.

In order that those skilled in the art to which my invention appertains may understand more fully its construction and adaptation, I will proceed to describe the same, referring by letters to the accompanying drawings, forming a part of this specification, in which is shown a central longitudinal section of a knob constructed in accordance with my improvement.

A is the rear shell of the body of the knob, and it consists of a perforated plate cast from iron, with the shank B formed integral therewith.

C is a sheath of sheet metal conformed to the desired contour, and having an annular recess, D, at its outer portion, within which the shell A rests, as will be presently explained. This sheath is adapted at its inner portion to accommodate the shank B and act as a sleeve for the same.

E is the front shell, of any desired contour, constructed by casting.

F is a flange formed around the inner periphery of this shell.

G is a cap of sheet metal adapted to fit closely over the front shell, and provided with an annular recess, H, to accommodate the flange F.

In assembling the several parts of my improvement I first place the rear shell and shank within the sheath C and fill the space between the said shell and the knob portion of the sheath with any suitable cement or plastic material, I. I then place the cap G over the shell E, and secure the two shells thus covered by spinning or beading the inner edge of the cap G underneath and around the shoulder of the annular recess D, thereby firmly binding the several parts together in operative position. The cement will quickly harden and form a backing for the rear shell.

I am aware that knobs have been made with a cement backing in both the front and rear shells; but the cement in the front shell is continually crumbling and becoming loosened by accidental knocks and rough usage, owing to the fact that this portion of the knob is the most exposed and sustains all the wear, and I do not wish to be understood as laying claim to any such construction.

What I claim as new, and desire to secure by Letters Patent, is—

In a door-knob, the rear portion formed of a sheet-metal sheath or casing, having arranged therein a cast-metal plate with the shank projecting therefrom, the space between said plate and casing being filled with cement, in combination with the front portion of the knob formed of a cast-metal shell, and a cap adapted to the external contour of said shell, the several parts being secured together substantially as shown and described.

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

WILLISTON I. ALVORD.

Witnesses:

S. S. WILLIAMSON,
W. T. HAVILAND.