

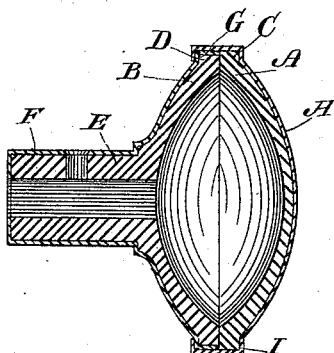
(No Model.)

W. I. ALVORD.

DOOR KNOB.

No. 305,559.

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. 305,559, 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 provide a method of construction for a knob, whereby the finished knob may have the appearance of being constructed wholly from the metal used as the outer envelope or covering, while the filler which forms the body of the knob is made of some cheaper metal; and with these ends in view my invention consists in the details of construction and combination of elements hereinafter fully and in detail described, and then specifically designated by the claim.

In order that those skilled in the art to which my invention appertains may more fully understand its construction and operation, and how to make and use the same, I will proceed to describe my improvement, referring by letter to the accompanying drawing, forming a part of this specification, which shows a central section of a door-knob constructed after my improved method.

A B are the front and rear shells, respectively, which form the body of the knob. The front shell is a concave circular plate made by casting from any cheap metal, and provided with a continuous flange, C, around its edge. The rear plate consists of a concave cup of metal with a flange, D, similar to the flange C, and having cast integral therewith the hollow shank E, adapted to receive the spindle.

F is a sheath or casing, constructed from thin sheet metal, and conformed to the external contour of the rear shell and shank, so as to readily contain the said shell and shank and form a complete envelope for the same. An annular recess, G, is formed at the outer edge of this casing to accommodate the flange D on said shell.

H is a cap, constructed, in any desired manner, from thin sheet metal, and adapted to conform to the external contour of the front plate, A, and provided with an annular recess, I, around its inner circumference, to accommodate the flange C. This cap is so constructed that when the several parts of the knob are assembled the inner edge of said cap will extend beyond the annular recess in the casing of the rear shell, for the purpose presently explained.

In assembling the parts of my improved door-knob the sheath or casing F is placed over the rear shell and shank. The cap H is then placed over the front shell, and the shells thus covered are placed together, as shown in the drawing. That portion of the cap H which extends beyond the annular recess in the casing of the rear shell is spun or beaded around the shoulder of this recess, thereby drawing the several parts of the completed knob tightly together.

I am aware of the Patent No. 129,458, granted, July 16, 1872, to C. Carpenter; also, I am aware of Patent No. 162,418, granted, April 20, 1875, to Christian Rebstock; but I do not wish to be understood as laying claim to the constructions described and shown therein.

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

In a door-knob, the body of the knob formed of two independent cast-metal shells conformed externally to the contour of the knob, and provided at their meeting surfaces with flanges extending around their peripheries, and with the shank formed integral with the rear shell, the said shells being enveloped by a sheet-metal sheath and cap having annular recesses adapted to said flanges, the several parts being secured firmly together by turning the inner edge of the cap underneath the flange on the rear shell and against the sheath thereon, substantially as set forth.

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

WILLISTON I. ALVORD.

Witnesses:

S. S. WILLIAMSON,  
WILLIAM J. HAVILAND.