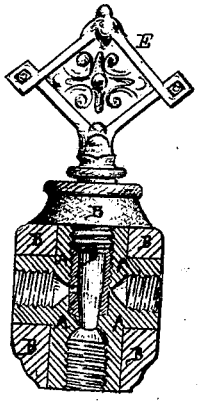
S. Rust. Jr,

Gas Cock.

No. 109,671. Patented Nov. 29. 1870.



Witnesses
A. Moore
H. N. Burton

Inventor
Samuel Rust Jr
By C. L. Coombs
Atty.

United States Patent Office.

SAMUEL RUST, JR., OF CINCINNATI, OHIO.

Letters Patent No. 109,671, dated November 29, 1870.

IMPROVEMENT IN COCKS FOR CARBURETERS, &c.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, SAMUEL RUST, Jr., of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and improved Cock for Carbureters and for vessels and pipes for gasoline and other liquids and vapors, of which the following is a specification.

The object of my invention is to provide a finished or ornamental cock to be used in connection with carbureters, vessels and pipes for gasoline and other liquids and vapors, that will be cheaper in construction than the ordinary brass cocks, and will more perfectly withstand the action of corrosive liquids and vapors, and will be as strong and durable as the brass and iron cocks in ordinary use.

The nature of my invention consists in forming the interior part of the cock of brass, iron, or other hard metal, and the exterior of zinc or other metal or alloy fusible at a lower temperature than brass, by casting it around said interior part.

In constructing the ordinary cocks of brass or iron, they must necessarily be cast in sand molds, which are destroyed at each casting, and leave the surface of the article in such a condition that the expensive process of engraving, polishing, &c., has to be resorted to to finish each article. By constructing the cock with the interior of iron or brass, in accordance with my invention, the necessary strength for the screw-threads is obtained, and by constructing the exterior of zinc or other metal or alloy fusible at a comparatively low temperature, which may be cast around said interior portion of brass or iron, all engraving, "fine finishing," &c., are dispensed with, as the article leaves the mold in a finished condition, and hence the cost of the article is materially lessened. Besides, by substituting in a great part, zinc, or other cheap fusible metal or alloy, for the expensive metal, (brass,) a further expense is saved.

The nature of my invention further consists in forming the valve-seat of the cock of zinc or other metal or alloy fusible at a comparatively low temperature, in order to resist the corrosive action of the gasoline, and to prevent the wear that follows when two surfaces of brass work in contact with each other.

In the drawing—

A represents the interior portion of the cock, of iron, brass, or other hard metal, which may be a rough casting, or may be formed in any other convenient manner.

B represents the exterior portion of the cock, of zinc or other fusible metal or alloy, cast around the part A in any convenient manner.

C represents the valve-seat, of zinc or other soft and fusible metal or alloy, which may be cast or secured in the cock in any convenient way; and

D represents the cock, which is operated in the ordinary manner, by a thumb-screw, E.

Having described my invention,

What I claim is—

A cock having the interior portion composed of brass, iron, or other hard metal, and the exterior of of zinc or other metal or alloy fusible at a lower temperature than brass, substantially as and for the purpose herein described.

SAMUEL RUST, JR. [L. S.]

Witnesses:

WM. H. EVANS,

J. C. CAMPBELL.