C. E. L. HOLMES.

STOVE-PLATFORM.

No. 186,475. Patented Jan. 23, 1877.

Fig. 1.

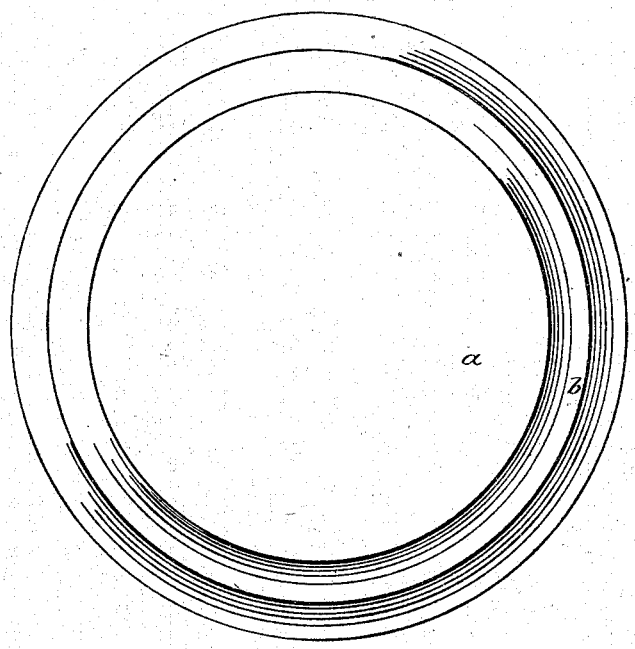

Fig. 2.

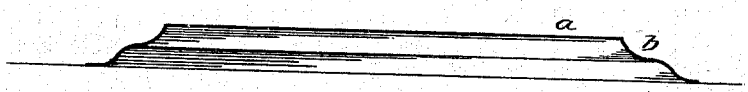

Fig. 3.

Attest:
Fred Benjamin
George Thomas

C. E. L. Holmes,
By Charles Hosler
his attorney.

UNITED STATES PATENT OFFICE.

CHARLES E. L. HOLMES, OF NEW YORK, N. Y.

IMPROVEMENT IN STOVE-PLATFORMS.

Specification forming part of Letters Patent No. **186,475**, dated January 23, 1877; application filed December 21, 1876.

To all whom it may concern:

Be it known that I, CHARLES E. L. HOLMES, of city, county, and State of New York, have invented a Stove-Platform, of which the following is the specification:

The object of my invention is a stove-platform, constructed as fully described hereafter, to secure the requisite stiffness and rigidity, and to insure a permanent and durable, highly-polished, and brilliant surface.

In the accompanying drawing, Figure 1 is a plan of my improved stove-platform; Fig. 2, a transverse section; and Fig. 3, an enlarged section of the compound material of which the platform is made.

Ordinary stove-platforms are made of sheet-zinc stamped or spun up to form a central flat bearing, *a*, and an inclined waved rim, *b*. While zinc is well adapted for the manufacture of this class of articles, on account of its stiffness, durability, and cheapness, a finished article cannot be made therefrom, owing to the readiness with which the surface can be acted upon by gases generated in the stove, which soon cause the formation of a white oxide upon the surface, while the color of the zinc, even when polished, is dull and without luster.

Platforms made of brass, while capable of a fine polish, soon lose their luster, and are expensive, while tin, although capable of a fine polish, and having a white durable color and brilliant luster, is too soft and too expensive for use alone.

My improved platform combines the merits of both zinc or other stiff cheap metal and tin, and is made by first rolling or otherwise forming a sheet, A, of compound metal, Fig. 3, consisting of a base or body, *a*, of zinc, and a face, *b*, of block-tin, or compound containing tin, or of a facing of block-tin united to a backing of sheet-iron, or its equivalent, so that the upper face is tin and the lower face is hard metal.

It is preferable to use zinc and tin in combination, as the two metals unite under pressure, are sufficiently malleable to be readily drawn or spun up to the required shape, and yet are stiff enough to support the weight of a stove or other article. The platform thus produced, while possessing the rigidity of the zinc, capable of as ready manufacture, and costing but little more, has, in addition, all the advantages of an article made of block-tin, possessing the brilliant durable color and lustrous surface, almost incapable of oxidation.

I claim—

1. As a new article of manufacture, a platform consisting of a compound metal of block-tin, or tin compound and zinc, the tin constituting the upper face, and being united throughout its whole extent to the zinc base or backing, as set forth.

2. A stove-platform having a tin surface and a backing of hard metal united permanently face to face to the tin, as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

C. E. L. HOLMES.

Witnesses:

SAMUEL KILPATRICK,

F. D. BAKER.