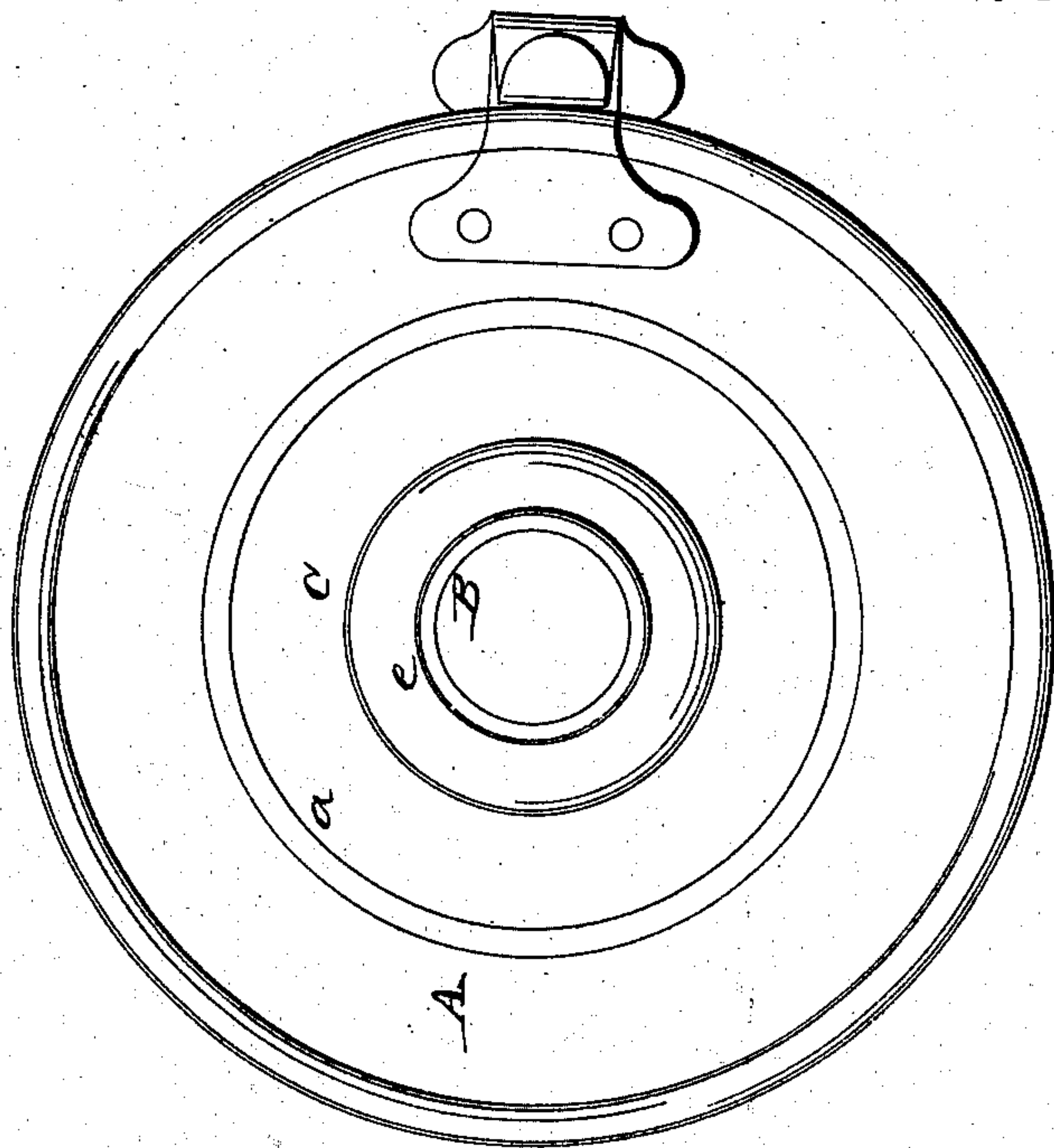


*J. W. Smith.*  
*Candlestick.*

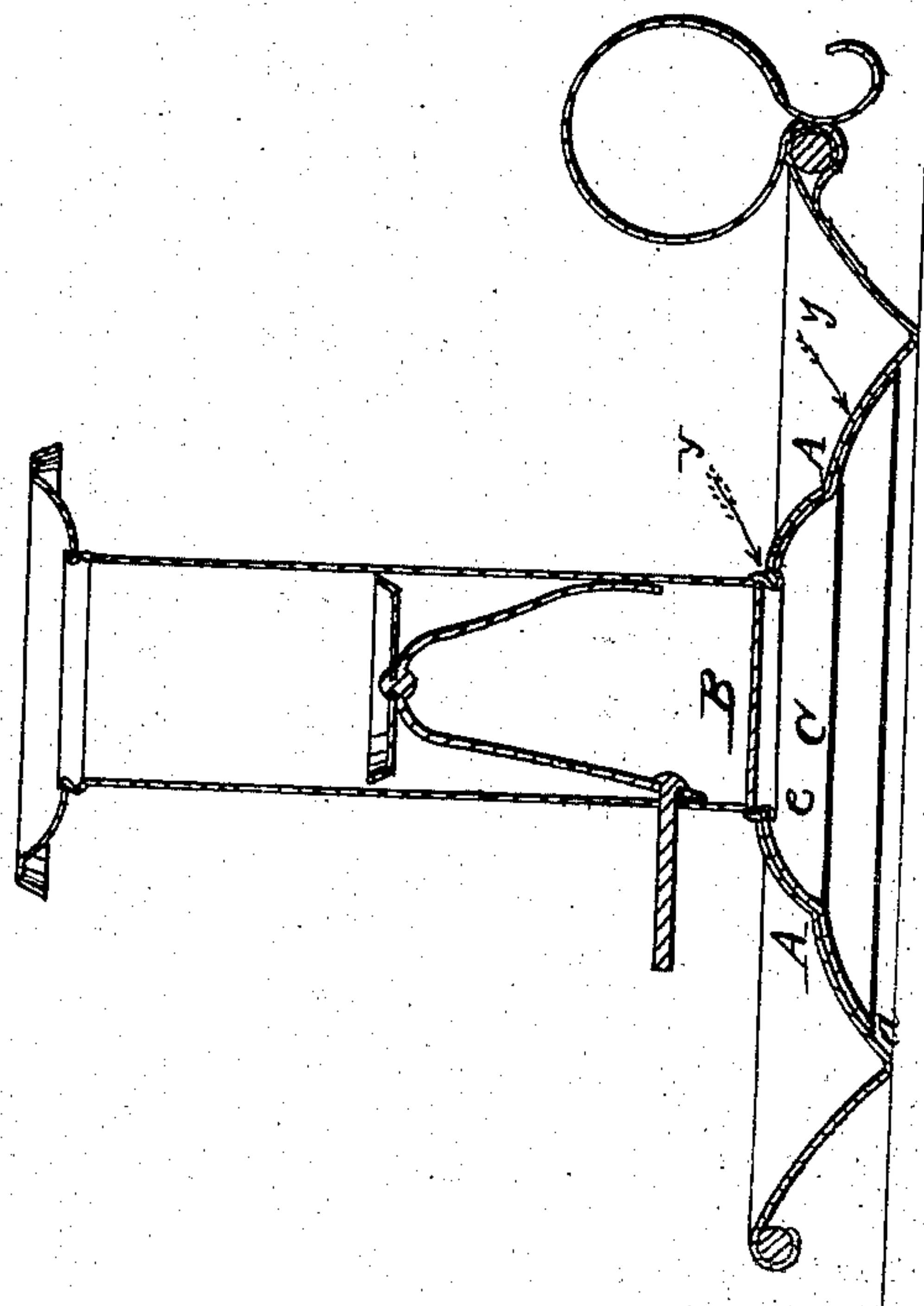
*Nº 11,389.*

*Patented Jul 25, 1854.*

*Fig. 2.*



*Fig. 1.*





# UNITED STATES PATENT OFFICE,

J. WHEELER SMITH, OF POULTNEY, VERMONT.

## SHEET-METAL CANDLESTICK.

Specification of Letters Patent No. 11,389, dated July 25, 1854.

*To all whom it may concern:*

Be it known that I, J. WHEELER SMITH, of Poultney, in the county of Rutland and State of Vermont, have invented a new and  
5 useful Improvement in the Construction of Sheet-Metal Candlesticks; and I do hereby declare that the following is a full and exact description thereof, reference being  
10 had to the accompanying drawings, making part of this specification, Figure 1 being a vertical section through the center of a candlestick constructed with my improvement, and Fig. 2 view of the under side of the bottom thereof.

15 Like letters designate corresponding parts in both figures.

The nature of my invention consists in forming the base of a sheet metal candlestick of two sheets of different metals, which  
20 are of such proportions respectively that the upper sheet is too thin to support the candlestick by itself, and has the requisite stiffness and strength imparted to its central portion by fitting and firmly uniting there-  
25 to the undersheet, substantially in the manner hereinafter set forth.

My improvement, although applicable to any candlestick, the material of which has not ordinarily sufficient thickness to insure  
30 the requisite firmness and strength; but it is especially designed for candlesticks made of sheet brass, which, as at present constructed, are peculiarly liable to be crushed, and their durability in general much less-  
35 ened, on account of the thinness of the sheets employed in their manufacture.

In the accompanying drawings, A, represents the bottom, or base, and B, the barrel of a brass candlestick. As ordinarily  
40 constructed, there are two parts of the bottom which are very liable to give way, viz, one where it is joined to the barrel, as indicated by the arrow *x*, in Fig. 1, and the other, in the arch thereof somewhere near  
45 the position indicated by the arrow *y*, in

the same figure, or where force or violence acting through the barrel thereon, exerts the greatest leverage compared with the least proportional strength of the arch. To obviate these defects, I employ a sheet metal  
50 (generally sheet iron) plate C, of sufficient size to reach beyond the weak portion (*y*,) of the arched bottom, and swage it so as to fit centrally into the under side thereof, substantially as represented. This plate  
55 is then firmly secured to the bottom by soldering its outer edge *a*, thereto; and a central aperture of the size of the barrel of the candlestick having been made in it, the end *e*, of the barrel, is lapped over its  
60 edge together with that of the bottom A, as represented in the drawings. By thus strengthening the bottom of a candlestick, it can not be crushed down by any force or violence to which it is exposed, however thin  
65 the sheet of brass, (or other material,) of which it is made, may be. I am thereby enabled to use very light material and consequently make a cheaper article, which at the same time is as strong and durable as  
70 can be desired.

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

Forming the base of a sheet metal candlestick of two sheets of different metals, which  
75 are of such proportions respectively that the upper sheet is too thin to support the candlestick by itself, and has the requisite stiffness and strength imparted to its central portion by fitting and firmly uniting there-  
80 to the under sheet, substantially in the manner herein set forth.

The above specification of my new and useful improvement in the construction of sheet metal candlesticks signed by me this  
85 seventh day of June 1854.

J. WHEELER SMITH.

Witnesses:

J. S. BROWN,  
JOHN L. SMITH.