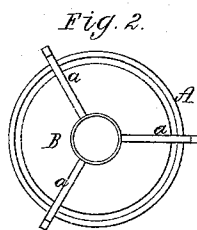
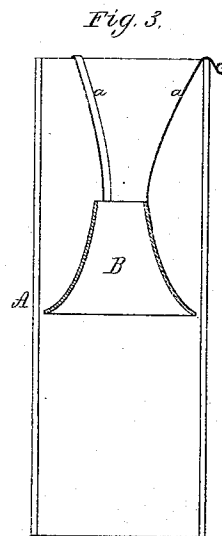
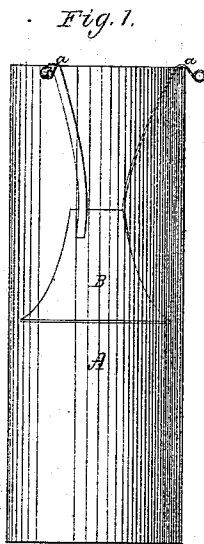


BATISTA VITALIS.

Apparatus for Preventing the Breakage of Lamp-Chimneys.

No. 125,915.

Patented April 23, 1872.



Witnesses.
S. N. Piper
L. N. Miller

Batista Vitalis.
by his attorney
H. W. Gray

UNITED STATES PATENT OFFICE.

BATISTA VITALIS, OF ATHENS, GREECE.

IMPROVEMENT IN APPARATUS FOR PREVENTING THE BREAKAGE OF LAMP-CHIMNEYS.

Specification forming part of Letters Patent No. 125,915, dated April 23, 1872.

To all persons to whom these presents may come:

Be it known that I, BATISTA VITALIS, of Athens, of the Kingdom of Greece, have made a new and useful invention having reference to Glass Chimneys for Argand or other Lamps; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, of which—

Figure 1 is a side view, Fig. 2 a top view, and Fig. 3 a vertical section of a lamp-chimney provided with my addition, the purpose of which is to prevent the chimney from being broken by the flame of the wick.

In carrying out my invention I suspend within the chimney A, and from its top, by means of a series of hooked springs, *a a a*, a bell, B, open both at bottom and top in order that the flame and smoke may be concentrated and pass mainly through the bell while going through the chimney.

The open bell may be made of metal, porcelain, or fire-clay, or other suitable material, and is to be circular in horizontal section when used in a cylindrical chimney, but when intended for the flame of a bat-wing burner or flat flame it is to be elongated in horizontal section to properly conform thereto.

By means of the pendent bell arranged within the chimney it has been found by thorough

tests that it is a preventive of the chimney being cracked by the flame, however high such may become.

I am aware of the expansible shield described and shown in the United States patent No. 112,446, and therefore make no claim thereto, nor to the device for supporting it in a lamp-chimney, such device being applicable only to chimneys having the upper ends of the same diameter.

The supporting arms *a* of my shield B are thin flexible springs, each formed with a hook, as shown. Thus they are adjustable to chimneys of different diameters at their upper ends, and consequently enable the shield to be adapted to any lamp-chimney, and, besides, they operate to centralize the shield in the chimney, so as to enable light from the flame of the wick to pass up around the lower edge of the shield B, and, by so doing, to cause the shield to produce little or no shadow while in use.

I therefore claim—

The combination of the shield B and the series of centralizing and adjustable hooked springs *a a a*, all combined and arranged in manner and for use as described.

BATISTA VITALIS.

Witnesses:

R. H. EDDY,
J. R. SNOW.