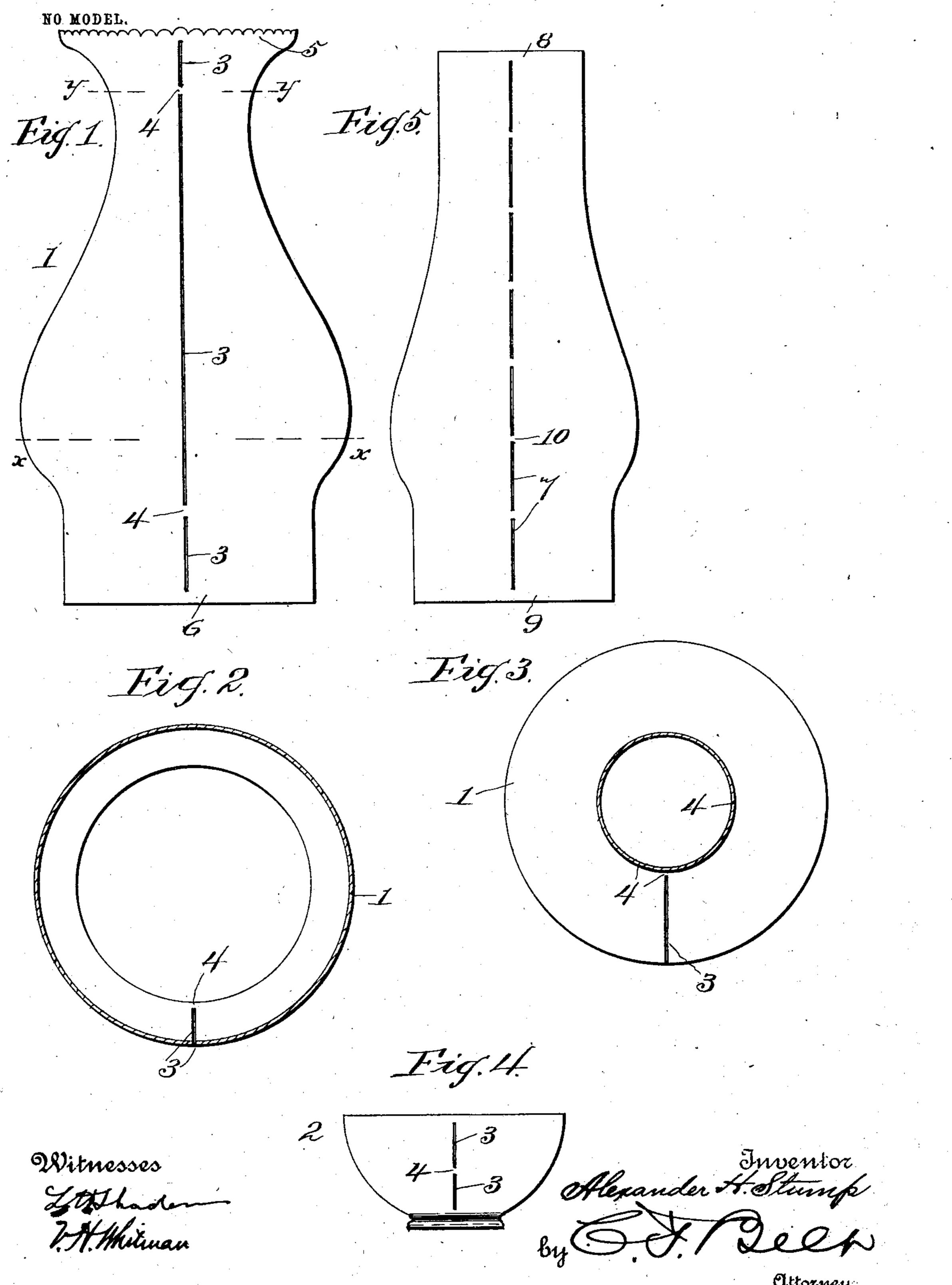
A. H. STUMP.

EXPANSIBLE AND CONTRACTIBLE LAMP CHIMNEY.

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ALEXANDER H. STUMP, OF BALTIMORE, MARYLAND.

EXPANSIBLE AND CONTRACTIBLE LAMP-CHIMNEY.

SPECIFICATION forming part of Letters Patent No. 729,447, dated May 26, 1903.

Application filed January 28, 1903. Serial No. 140,881. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER H. STUMP, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented ed certain new and useful Improvements in Expansible and Contractible Lamp - Chimneys, of which the following is a specification.

This invention relates to lamp-chimneys, and pertains particularly to the class of in-

to tegral lamp chimneys or globes.

The object of the invention is to provide a peculiar chimney or globe capable of contraction and expansion under varying conditions of heat without destroying or rendering the

15 chimney or globe useless.

A further object of the invention is to provide a chimney or globe the body of which being capable of contraction and expansion without breaking to such an extent as to render the chimney or globe useless and to predetermine or fix certain points or places to be broken by such contraction and expansion without impairing the usefulness of the chimney.

Chimneys and globes having a diamond-cut groove partly through the glass and chimneys have been cut vertically in two parts to provide for expansion and contraction; but such provisions are not sufficient, and besides the 30 inconvenience of diamond-cutting and of adjusting the two-part chimney they are otherwise objectionable, particularly in packing, storing, transporting, and applying them. Shades or reflectors perforated throughout 35 have been provided; but the cracking and breaking thereof under expansion and contraction is not fixed or controlled, and therefore it is unlimited and invariably disables the article. It is therefore the purpose and 40 intent of this invention to overcome such objections and disadvantages and to provide a chimney or globe capable of being packed, stored, and transported as are the ordinary solid chimneys commonly used, yet of such 45 form and design in the manufacture thereof

In the accompanying drawings, forming part of this application, Figure 1 is an elevation. Fig. 2 is a cross-section on the line xx, Fig. 1. Fig. 3 is a cross-section on the line yy, I claim as ne Fig. 1. Fig. 4 is an elevation of a shade or Patent, is—

that they have full and sufficient capacity for

globe, showing my invention. Fig. 5 is an elevation of a modification.

The same numeral references denote the 55 same parts in the several views of the draw-

ings.

The chimney 1 and globe or shade 2 are of the usual shape, or they may be made in any desired shape and form, having formed there- 60 in in any suitable manner, but preferably in the blowing or manufacture of the chimney or globe, two or more slits 3, having a solid interval 4 of the chimney or globe material intervening or separating the slits. 65 These slits extend throughout the length of the chimney, except through the top and bottom rims 5 and 6, respectively, thereof. The slits nearest the said rims terminate within a short distance of the rims, so as to leave the 70 latter intact, or they may extend through the rims, if desired. The glass intervals 4 are preferably located at the juncture of the enlarged portion of the chimney and the top and bottom necks thereof to make the chim- 75 ney intact at these points where the chimney is most effected by heat, so that the said intervals 4 may only be broken, without injury to the chimney.

Referring to the modification shown in Fig. 80 5, a series of slits 7 of equal length extend from the top to the bottom of the chimney and terminate in rims 8 and 9. These slits are separated by a series of chimney material 10, so that the latter and the slits alternate 85 through the length of the chimney. It will be understood that the slits are of such slight width that they appear as a broken line in the chimney and that the intervals of glass or chimney material intervening between the 90 slits are of such limited length as to readily crack or break from one slit to the other in case of unusual contraction and expansion.

It is obvious that while contraction and expansion is fully provided for the chimney will 95 not break, except between the slits or openings, like the ordinary solid chimney, the two-part chimney, or like the perforated shade or reflector, and that in applying the chimney there is no interference as of a grooved rim 100 or of a two-part chimney.

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

1. A chimney, globe or shade having a single line of openings at intervals therein to admit of contraction and expansion, and terminating short of the chimney ends to leave the latter intact.

2. A contractible and expansible chimney having a series of slits vertically in line one with the other, a series of intact portions separating the slits, the latter and the said por-

tions alternating to permit contraction and 10 expansion.

In witness whereof I hereunto set my hand in the presence of two witnesses.

ALEXANDER H. STUMP.

Witnesses:

FRANK S. APPLEMAN, G. A. LEHMANN.