United States Patent Office.

GEORGE B. BRAYTON, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO "THE NOVELTY EYELET COMPANY," OF SAME PLACE.

Letters Patent No. 90,337, *dated May* 25, 1869.

IMPROVED ALLOY FOR FORMING EYELETS.

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, GEORGE B. BRAYTON, of the city of Boston, in the county of Suffolk, in the State of Massachusetts, have invented a new and useful Improvement in Composition-Metals for Eyelets; and I do hereby declare that the following specification is a full, clear, and exact description thereof.

The peculiar composition-metal described in the Letters Patent granted to me, August 6, 1867, is particularly intended for use in the manufacture of white eyelets, on account of its characteristics of softness and natural lustre. This latter quality is due to the presence of the large proportion of tin which enters into the composition.

For many uses in the arts, black or japanned eyelets are preferred, and for such manufacture the quality of lustre is not important to be possessed by the composition of which they are made. Tin is an expensive element to employ for composition-metals, and my object is to reduce the proportion to be used, and by the addition of other elements, cheapen the composition without depriving it of the necessary quality of softness, although its capacity to retain its first brightness of color without oxidizing may be impaired.

I employ, in the composition of the metal, tin, lead, and antimony, making use of equal parts of the lead and tin, and six per cent. of antimony.

I have found these proportions to be the best, though they may be slightly varied without bad results.

A proportion of antimony materially larger than that above given would make the composition too brittle, while, on the other hand, a much less proportion of antimony, and an increase in the proportion of lead, will cause the metal to be deficient in tensile strength.

The several elements mentioned are, while in a state of fusion, to be thoroughly intermixed. The mass may then be cast into the form of ingots, or into the form of cylinders upon wire mandrels, preparatory, in the former case, to being rolled into sheets, or, in the latter case, to be drawn out into the form of tubes for eyelet-stock.

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

The use of a metal for eyelets, composed of the elements and of the character substantially as described.

GEO. B. BRAYTON.

Witnesses:

DANIEL SHARP,

C. H. DEWING.