

UNITED STATES PATENT OFFICE.

ASAHEL K. EATON, OF BROOKLYN, NEW YORK.

PREPARATION OF METALLIC LEAD.

SPECIFICATION forming part of Letters Patent No. 225,356, dated March 9, 1880.

Application filed November 11, 1879.

To all whom it may concern:

Be it known that I, ASAHEL K. EATON, of Brooklyn, in the county of Kings and State of New York, have invented a new article of manufacture consisting of lead in the form of fiber; and I do hereby declare the following to be a description of the same in such full, clear, and concise terms as to enable any one skilled in the arts to which it appertains or with which it is most nearly connected to make and use the same.

My new article of manufacture consists of lead of the form of fine hair-like fibers or threads.

The means of producing this article consists of a strong hollow steel or iron cylinder supplied with an accurately-fitting piston. The bottom of this cylinder is filled with very fine perforations, which may also extend to the lower part of the sides.

The cylinder should be suitably supported, and should be thick and strong enough to sustain the applied power necessary to force the melted lead through the perforations.

The cylinder and its piston are kept hot, and the lead is charged in the cylinder in a hot and molten state, and is forced out through the fine perforations into a cold atmosphere.

The lead, being divided into very fine threads or fibers, cools as fast as it issues from the cylinder, and retains the form of hair or fiber.

The uses to which this invention may be put are many, among the most prominent of which I will mention the manufacture of white lead, packing for stuffing-boxes of steam-engines, calking for metal joints, &c.

The finely-divided condition of the lead in the form of loose fiber is of great advantage in the manufacture of white lead after what is known as the "old Dutch method" both in the saving of time and in the quality of the product, the conversion being very rapid and perfect, requiring but a few days, instead of as many months, and leaving no lumps or fractions of unconverted metal in the resulting carbonate.

I claim as my invention—

The new article of manufacture consisting of lead in the form of hair or thread-like fiber.

In witness whereof I have hereunto signed my name on this 30th day of September, 1879.

A. K. EATON.

In presence of—

SAML. RUSSELL,
HENRY C. HUDSON.