

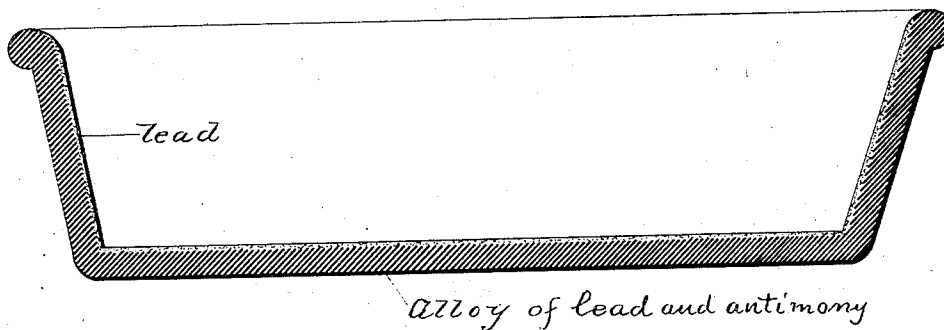
(No Model.)

H. EGELLS.

PROCESS OF CONSTRUCTING LEAD VESSELS.

No. 310,500.

Patented Jan. 6, 1885.



Witnesses
H. A. Low
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Inventor
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UNITED STATES PATENT OFFICE.

HERMANN EGELLS, OF BERLIN, GERMANY.

PROCESS OF CONSTRUCTING LEAD VESSELS.

SPECIFICATION forming part of Letters Patent No. 310,500, dated January 6, 1885.

Application filed November 1, 1884. (No model.) Patented in France October 19, 1883, No. 158,120; in England December 28, 1883, No. 5,894, and in Austria-Hungary June 19, 1884, No. 9,859 and No. 26,453.

To all whom it may concern:

Be it known that I, HERMANN EGELLS, of Berlin, Prussia, German Empire, councilor of commerce, have invented a new and useful improvement in the construction of vessels or apparatus exposed to corrosive action, (for which I have obtained Letters Patent in France October 19, 1883, No. 158,120; in England and Ireland December 28, 1883, No. 5,894, and in Austria-Hungary June 19, 1884, No. 9,859 and No. 26,458,) of which the following is a specification.

The accompanying drawing illustrates one of my improved lead-lined vessels.

For many chemical operations it is necessary to use vessels or apparatus made of lead, so as to present a metallic surface that is not readily corroded by the substances treated; but the use of lead for this purpose occasions difficulties of construction on account of the soft and yielding character of this metal.

This invention has for its object to avoid these difficulties by the use of a compound metal of sufficient strength and stiffness to resist the strains to which the vessels or apparatus are exposed, and yet to present a leaden surface to the chemicals treated. For this purpose the vessels or apparatus are made of

an alloy like type-metal, consisting chiefly of lead and antimony, to which a little copper may be added. The surfaces that are to be exposed to the action of the chemicals are then coated over with a thin layer of pure soft lead fused upon them by the blow-pipe, so that there is an actual soldering of the lead to the alloy. The other surfaces of the vessels or apparatus, if they are to be exposed to air, steam, or damp, are preferably tinned in the usual way.

I claim as my invention—

The described improvement in the manufacture of vessels and apparatus to be exposed to corrosive action, consisting in constructing the body of the same of one of the harder alloys of lead—such as type-metal—and then coating the surface or surfaces to be exposed to such corrosive action with lead fused directly upon the same, as hereinbefore set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HERMANN EGELLS.

Witnesses:

JOHN R. ROSLYN,
B. ROI.