UNITED STATES PATENT OFFICE.

LEVI STEVENS, OF WASHINGTON, DISTRICT OF COLUMBIA.

METHOD OF CASTING HOLLOW METAL BODIES WITH A NON-OXIDIZABLE LINING.

SPECIFICATION forming part of Letters Patent No. 327,033, dated September 29, 1885.

Application filed January 16, 1884. Renewed March 20, 1885. (No specimens.)

To all whom it may concern:

Be it known that I, LEVI STEVENS, a citizen of the United States, and a resident of Washington, in the District of Columbia, have invented a certain new and Improved Method of Casting Hollow Metal Bodies with a Metallic or Semi-Metallic Facing; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention consists in a method of impregnating iron with silex in the process of casting, so that the interior of a superheater or other hollow vessel will be capable of resisting the corroding and wearing effects of steam while in motion at a high temperature and under pressure. To accomplish this result, I use prussiate of potassium applied to the core of the superheater or other vessel to be cast. The application may be made by incorporating the prussiate of potassium with the sand forming the core, or by covering the core with a preparation of the prussiate of potassium.

In order to produce the result specified, it is necessary to continue the delivery of the molten iron into the mold for a period of about five minutes after the mold is filled, so that the mass of metal in the mold may be kept at a high temperature until the formation of the new metal or metallic substance is completed upon the inner face of the superheater or other vessel in process of casting.

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

The use of prussiate of potassium in the casting of superheaters or other hollow vessels in the manner substantially as described.

LEVI STEVENS.

In presence of—
DOUGLAS DYRENFORTH,
C. C. LINTHICUM.