

# UNITED STATES PATENT OFFICE.

EMIL JABULOWSKY, OF PFORZHEIM, GERMANY.

## METHOD OF PRODUCING A BLACK OXID ON THE SURFACE OF STEEL.

No. 838,546.

Specification of Letters Patent.

Patented Dec. 18, 1906.

Application filed February 20, 1905. Serial No. 246,485.

*To all whom it may concern:*

Be it known that I, EMIL JABULOWSKY, manufacturer, a subject of the German Emperor, residing at Pforzheim, Germany, have  
5 invented a certain new or Improved Method for Producing a Layer of Black Oxid on the Surface of Steel, of which the following is a specification.

This invention relates to a new or improved process for the treatment of steel ornaments and other articles of steel for the purpose of producing on the surfaces of such articles layers of polished black oxid.

According to the present invention steel  
5 articles of any kind are first highly polished and then placed in a bed of faintly incandescent carbon-powder, in which they are left for a longer or shorter period, according to the thickness of the metal, the said articles  
10 not being removed from the carbon-powder

until their surfaces are blackened. The blackened surfaces are again polished, and the articles are then ready for use. Before polishing the blackened surfaces the steel articles are preferably plunged while still hot  
25 into a paraffin-bath. By this means greater uniformity of blackness is obtained.

I claim—

The process for the purpose set forth consisting in polishing the steel article, placing  
30 the latter in incandescent carbon-powder to blacken its surface, immersing the article while hot in a paraffin-bath, and polishing the article, substantially as described.

In witness whereof I have signed this specification in the presence of two witnesses.  
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EMIL JABULOWSKY.

Witnesses:

GUSTAV SCHWEISS,  
M. C. BRITAIN.