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ABSTRACT

A COATED ARTICLE AND A METHOD OF COATING SAID ARTICLE

The present specification discloses a coated article having a wear and corrosion resistant coating which is formed by blending a powder formulation having a metal carbide-metal binder component and a nickel base boron containing alloy component. The blend is deposited on a body of the article by a method capable of producing a coating with an as-deposited porosity of less than 5% and a boron content of 1.3 to 3.0 wt % of the whole coating. Then the coated article is preferably heat-treated to achieve in the coating a microhardness above 900 Kg/mm² HV.3 and the elimination of all interconnected porosity. The coating thus produced will sustain oil quenching without cracking.