

Title (en)

CHROMIUM-BASED WEAR RESISTANT COATING FOR STEEL AND PROCESS FOR PRODUCING THE SAME

Publication

**EP 0077703 B1 19860115 (FR)**

Application

**EP 82401775 A 19820930**

Priority

FR 8118779 A 19811006

Abstract (en)

[origin: US4469532A] The invention concerns an abrasion resistant coating for steel and a method which makes it possible to obtain such a coating. The coating comprises two surface layers. The first surface layer, the outer layer, is formed of the phase (Cr, Fe)<sub>2</sub>B and possibly the phase M<sub>23</sub>C<sub>6</sub>, while the second surface layer, the inner one, is formed of the phase (Fe, Cr)<sub>2</sub>B. In order to obtain this coating, a boriding is effected on steels at a temperature less than or equal to 950 DEG C. for a period of time greater than or equal to four hours, followed by a chromizing at a temperature less than or equal to 950 DEG C. for a period of time greater than or equal to 10 hours. Application to all steels in order to increase their resistance to wear is possible.

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IPC 8 full level

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