

Title (en)
Corrosion and wear resistant cold work tool steel

Title (de)
Korrosions- und verschleißfester Kaltarbeitsstahl

Title (fr)
Acier à outils pour travail à froid résistant à la corrosion et à l'usure

Publication
EP 2857126 B1 20160525 (EN)

Application
EP 14187555 A 20141002

Priority
SE 1351164 A 20131002

Abstract (en)
[origin: EP2857126A2] The invention relates to a corrosion and wear resistance cold work tool steel. The steel comprises the following main components (in wt. %): C 0.3 - 0.8 N 1.0-2.2 (C+N) 1.3 - 2.2 C/N 0.17 - 0.50 Si # 1.0 Mn 0.2 - 2.0 Cr 13-30 Mo 0.5 - 3.0 V 2.0 - 5.0 balance optional elements, iron and impurities.

IPC 8 full level
B22F 3/15 (2006.01); **B22F 1/00** (2022.01); **C22C 33/02** (2006.01); **C22C 38/18** (2006.01); **C22C 38/40** (2006.01)

CPC (source: EP KR RU US)
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Cited by
CN105177437A; CN113416831A; CN108893673A; RU2651071C1

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