

Title (en)  
WEAR RESISTANT ALLOY

Title (de)  
VERSCHLEISSFESTE LEGIERUNG

Title (fr)  
ALLIAGE RÉSISTANT À L'USURE

Publication  
**EP 3044345 A4 20170510 (EN)**

Application  
**EP 14843978 A 20140904**

Priority  
• US 201361877438 P 20130913  
• US 2014054153 W 20140904

Abstract (en)  
[origin: WO2015038406A1] An example of a wear resistant alloy consists essentially of from 0.15 wt.% up to 0.30 wt.% C; up to 0.50 wt.% Mn; up to 0.02 wt.% P; up to 0.015 wt.% S; up to 0.50 wt.% Si; from 30.25 wt.% up to 35 wt.% Ni; from 15.0 wt.% up to 17.0 wt.% Cr; from 1.60 wt.% up to 3.20 wt.% Ti; from 1.60 wt.% up to 2.50 wt.% Al; from 2.10 wt.% up to 3.20 wt.% Nb(Ta); up to 0.015 wt.% B; Mg present in an amount up to 0.030 wt.%; up to 0.50 wt.% Cu; up to 0.25 wt.% of Mo; up to 0.25 wt.% of W; up to 0.020 wt.% Ca; and a balance of Fe and inevitable impurities. The Ti + Nb(Ta) is greater than or equal to (>) 4.40 wt.%.

IPC 8 full level  
**C22C 38/48** (2006.01); **C22C 30/02** (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/42** (2006.01); **C22C 38/44** (2006.01); **C22C 38/50** (2006.01); **C22C 38/54** (2006.01)

CPC (source: EP US)  
**C22C 30/02** (2013.01 - EP US); **C22C 38/002** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **C22C 38/42** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP US); **C22C 38/48** (2013.01 - EP US); **C22C 38/50** (2013.01 - EP US); **C22C 38/54** (2013.01 - EP US)

Citation (search report)  
• [XAY] EP 2038444 A2 20090325 - EATON CORP [US], et al  
• [XAY] CA 2688647 A1 20110616 - VILLARES METALS SA [BR]  
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• [A] US 5779972 A 19980714 - NODA TOSHIHARU [JP], et al  
• See references of WO 2015038406A1

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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US 2016215373 A1 20160728

DOCDB simple family (application)  
**US 2014054153 W 20140904**; CN 201480050190 A 20140904; EP 14843978 A 20140904; US 201414917775 A 20140904