

Title (en)
FERRITIC STAINLESS STEEL

Title (de)
FERRITISCHER NICHTROSTENDER STAHL

Title (fr)
ACIER INOXYDABLE FERRITIQUE

Publication
EP 1740732 A1 20070110 (EN)

Application
EP 05732168 A 20050413

Priority
• SE 2005000523 W 20050413
• SE 0401046 A 20040416

Abstract (en)
[origin: WO2005100628A1] Ferritic steel alloyed with a balanced quantity of chromium, aluminium and reactive elements and that has the following composition (in % by weight): Ni up to 1 Cr 15-25 Al 0,75-3,7 Si max 0,6 Mo and/or W 0-3 Ti and/or Nb 0-1 Cu up to 0,2 N up to 0,2 one or more of the reactive elements Zr, Hf and REM >0 balance iron and normally occurring impurities, wherein the equation $Cr+3Al \geq 26$ is satisfied. The ferritic stainless steel is suitable for use as substrate material in catalytic converters for diesel engines in heavy vehicles at temperatures in the interval of 600-900 °C and a specific relation between the content of chromium and aluminium being satisfied.

IPC 8 full level
C22C 38/06 (2006.01); **C22C 38/18** (2006.01)

IPC 8 main group level
C22C (2006.01)

CPC (source: EP KR SE US)
B01J 23/745 (2013.01 - SE); **C22C 38/005** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP KR US); **C22C 38/18** (2013.01 - SE); **C22C 38/44** (2013.01 - EP US); **C22C 38/50** (2013.01 - SE); **F01N 3/2807** (2013.01 - SE)

Citation (search report)
See references of WO 2005100628A1

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