

Title (en)
FERRITIC STEEL ALLOY

Title (de)
FERRITISCHE STAHLLEGIERUNG

Title (fr)
ALLIAGE D'ACIER FERRITIQUE

Publication
EP 1546427 A1 20050629 (DE)

Application
EP 03798852 A 20030930

Priority
• CH 0300651 W 20030930
• CH 16592002 A 20021004

Abstract (en)
[origin: WO2004031430A1] Disclosed are steel alloys comprising no more than 1.00 percent by weight of silicon, 18.0 to 22.0 percent by weight of chromium, 1.80 to 2.50 percent by weight of molybdenum, 0.01 to 0.10 percent by weight of nitrogen, no more than 0.01 percent by weight of titanium, no more than 0.01 percent by weight of niobium, no more than 0.01 percent by weight of aluminum, the remainder being essentially iron. Said alloys are ferritic but polishable and have mechanical properties that nearly match those of the standard steel alloy no. 1.4521. The inventive steel alloys are processed into watch parts such as housing bottoms, housing shells, and faces, among others, such that watch housings can be produced, which also magnetically shield the clockwork.

IPC 1-7
C22C 38/22; **G04B 37/22**

IPC 8 full level
C22C 38/00 (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/22** (2006.01); **G04B 37/22** (2006.01)

CPC (source: EP US)
C22C 33/0285 (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/22** (2013.01 - EP US); **G04B 37/22** (2013.01 - EP US); **B22F 2998/10** (2013.01 - EP US); **B22F 2999/00** (2013.01 - EP US)

Citation (search report)
See references of WO 2004031430A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2004031430 A1 20040415; AT E360103 T1 20070515; AU 2003264228 A1 20040423; CN 1325687 C 20070711; CN 1688734 A 20051026; DE 50307092 D1 20070531; EP 1546427 A1 20050629; EP 1546427 B1 20070418; JP 2006501368 A 20060112; US 2006130938 A1 20060622

DOCDB simple family (application)
CH 0300651 W 20030930; AT 03798852 T 20030930; AU 2003264228 A 20030930; CN 03823678 A 20030930; DE 50307092 T 20030930; EP 03798852 A 20030930; JP 2004540449 A 20030930; US 52932505 A 20050325