

Title (en)
STEEL SHEET FOR TEXTILE MACHINERY PART AND MANUFACTURING METHOD THEREFOR

Title (de)
STAHLBLECH FÜR TEXTILMASCHINENTEIL UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
TÔLE D'ACIER POUR PIÈCE DE MACHINES TEXTILES ET SON PROCÉDÉ DE FABRICATION

Publication
EP 3323904 A1 20180523 (EN)

Application
EP 15898320 A 20150716

Priority
JP 2015070444 W 20150716

Abstract (en)
Provided is a steel sheet for textile machinery parts that can be manufactured at a low cost and is excellent in wear resistance and toughness. The steel sheet for textile machinery parts contains, in mass%, 0.60% or more and 1.25% or less C, 0.50% or less Si, 0.30% or more and 1.20% or less Mn, 0.03% or less P, 0.03% or less S, 0.30% or more and 1.50% or less Cr, and 0.10% or more and 0.50% or less Nb, with the balance being Fe and unavoidable impurities. Furthermore, Nb-containing carbides having a particle size of 0.5 μm or more are present in the matrix at a density of 3000/mm² or more and 9000/mm² or less. Through the use of the steel sheet for textile machinery parts, Nb-containing carbides' effect of improving wear resistance can be ensured, and deterioration in toughness due to excessive formation of Nb-containing carbides can be prevented. Hence, the resulting wear resistance and toughness are good.

IPC 8 full level
B22D 11/124 (2006.01); **C22C 38/00** (2006.01); **C22C 38/26** (2006.01); **C22C 38/54** (2006.01)

CPC (source: EP KR US)
B22D 11/001 (2013.01 - EP); **B22D 11/124** (2013.01 - KR US); **C21D 1/26** (2013.01 - EP US); **C21D 1/28** (2013.01 - EP US); **C21D 1/84** (2013.01 - EP); **C21D 6/002** (2013.01 - EP US); **C21D 6/005** (2013.01 - EP US); **C21D 6/008** (2013.01 - EP US); **C21D 6/02** (2013.01 - EP); **C21D 8/021** (2013.01 - EP US); **C21D 8/0247** (2013.01 - EP US); **C21D 9/0081** (2013.01 - EP US); **C21D 9/46** (2013.01 - EP US); **C22C 38/00** (2013.01 - US); **C22C 38/001** (2013.01 - US); **C22C 38/002** (2013.01 - US); **C22C 38/02** (2013.01 - EP KR US); **C22C 38/04** (2013.01 - EP KR US); **C22C 38/22** (2013.01 - EP KR); **C22C 38/24** (2013.01 - EP); **C22C 38/26** (2013.01 - EP KR US); **C22C 38/28** (2013.01 - EP KR); **C22C 38/32** (2013.01 - EP KR); **C22C 38/40** (2013.01 - EP); **C22C 38/44** (2013.01 - US); **C22C 38/46** (2013.01 - US); **C22C 38/48** (2013.01 - KR US); **C22C 38/50** (2013.01 - US); **C22C 38/54** (2013.01 - KR US); **C21D 2211/004** (2013.01 - EP)

Cited by
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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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BA ME

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