

Title (en)  
SLIDING COMPONENT AND SLIDING STRUCTURE

Title (de)  
GLEITKOMPONENTE UND GLEITSTRUKTUR

Title (fr)  
ÉLÉMENT COULISSANT ET STRUCTURE COULISSANTE

Publication  
**EP 3276031 A4 20181219 (EN)**

Application  
**EP 16768870 A 20160324**

Priority

- JP 2015064365 A 20150326
- JP 2016059355 W 20160324

Abstract (en)  
[origin: EP3276031A1] Provided is a sliding component having excellent wear resistance. Also provided is a sliding structure including the sliding component. The sliding component has a composition including: in mass%, 0.7 to 1.6 % of C; 0.5 to 3.0 % of Si; 0.1 to 3.0 % of Mn; 0.05 % or less of P; 0.01 to 0.12 % of S; 0.3 to 1.5 % of Ni; 7.0 to 13.0 % of Cr; one or two of Mo and W satisfying a relational expression: (Mo+W/2) is 0.5 to 1.7 %; 0 to 0.70 % of V; 0.1 to 1.0 % of Cu; 0.10 to 0.70 % of Al; 0 to 0.30 % of Nb; and the remainder of Fe and impurities. The sliding component has hardness equal to or more than 52 HRC and less than 58 HRC. The sliding structure includes the sliding component configured to slide on a sliding surface of a counterpart component under an environment in which lubricant is provided on a sliding surface of the sliding component.

IPC 8 full level  
**C22C 38/60** (2006.01); **C21D 1/18** (2006.01); **C21D 6/00** (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/34** (2006.01); **C22C 38/42** (2006.01); **C22C 38/44** (2006.01); **C22C 38/46** (2006.01); **C22C 38/48** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP KR)  
**C21D 6/004** (2013.01 - EP); **C21D 9/40** (2013.01 - EP); **C22C 38/02** (2013.01 - EP); **C22C 38/04** (2013.01 - EP); **C22C 38/06** (2013.01 - EP); **C22C 38/34** (2013.01 - EP); **C22C 38/42** (2013.01 - EP KR); **C22C 38/44** (2013.01 - EP KR); **C22C 38/46** (2013.01 - EP KR); **C22C 38/48** (2013.01 - EP KR); **C22C 38/58** (2013.01 - EP KR); **C22C 38/60** (2013.01 - EP KR); **C21D 2211/004** (2013.01 - EP)

Citation (search report)

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- [ID] JP 2007002333 A 20070111 - HITACHI METALS LTD
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- [A] US 2005252580 A1 20051117 - SHIMIZU TAKAYUKI [JP], et al
- [A] EP 2246452 A1 20101103 - HITACHI METALS LTD [JP]
- [A] RU 2277135 C1 20060527
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