

Title (en)
Electric contact and vacuum interrupter using the same

Title (de)
Elektrischer Kontakt und Vakuumschalter damit

Title (fr)
Contact électrique et interrupteur d'aspirateur l'utilisant

Publication
EP 2323148 A1 20110518 (EN)

Application
EP 10190812 A 20101111

Priority
JP 2009259401 A 20091113

Abstract (en)
The invention proposes electric contact made of a sintered alloy consisting essentially of chromium, copper and tellurium, wherein the sintered alloy is composed of copper matrix and a chromium phase, and wherein particles of a ternary intermetallic compound consisting of chromium, copper and tellurium are present in grains and at grain boundaries of the copper matrix, and at interfaces between the chromium phase and the copper matrix. The disclosure also discloses an electrode for a vacuum interrupter, a vacuum interrupter, a vacuum circuit breaker and a vacuum switch.

IPC 8 full level
H01H 1/02 (2006.01); **H01H 11/04** (2006.01)

CPC (source: EP)
H01H 1/0206 (2013.01); **H01H 11/048** (2013.01); **H01H 33/6643** (2013.01)

Citation (applicant)
• JP 2005135778 A 20050526 - HITACHI LTD, et al
• JP 2006140073 A 20060601 - HITACHI LTD
• JP 2003223834 A 20030808 - HITACHI LTD

Citation (search report)
• [XYI] WO 8901231 A1 19890209 - SIEMENS AG [DE]
• [Y] EP 2081200 A2 20090722 - HITACHI LTD [JP]
• [A] EP 0314981 A1 19890510 - SIEMENS AG [DE]

Cited by
US10153098B2; US10766069B2

Designated contracting state (EPC)
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

Designated extension state (EPC)
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EP 2323148 A1 20110518; CN 102064026 A 20110518; JP 2011108380 A 20110602

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