

Title (en)
Cr-BASED TWO-PHASE ALLOY AND PRODUCT THEREOF

Title (de)
CR-BASIERTE ZWEIPHASIGE LEGIERUNG UND PRODUKT DARAUS

Title (fr)
ALLIAGE BIPHASÉ À BASE DE CHROME ET SON PRODUIT

Publication
EP 3438304 A4 20191218 (EN)

Application
EP 17773605 A 20170130

Priority

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Abstract (en)
[origin: EP3438304A1] An object of the invention is to provide a two-phase alloy which contains inexpensive Cr as a main component, and which is superior in strength properties including corrosion resistance and toughness, and in abrasion resistance to conventional ones under a high corrosion circumstance such as in an oil well. The invention is a Cr based two-phase alloy including two phases of a ferrite phase and an austenite phase in a mixed state, in which a chemical composition of the Cr based two-phase alloy consists of a major component, an accessory component, impurities, a first optional accessory component, and a second optional accessory component, and the major component consists of 33% by mass or more and 65% by mass or less of Cr, 18% by mass or more and 40% by mass or less of Ni, and 10% by mass or more and 33% by mass or less of Fe.

IPC 8 full level
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Citation (search report)

- [A] EP 2883630 A1 20150617 - NIPPON STEEL & SUMITOMO METAL CORP [JP]
- [A] JP 2006152412 A 20060615 - MITSUBISHI HEAVY IND LTD
- [A] JP H11302801 A 19991102 - SUMITOMO METAL IND
- [A] US 5543109 A 19960806 - SENBA HIROYUKI [JP], et al
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- [A] US 5695716 A 19971209 - KOEHLER MICHAEL [DE], et al
- See references of WO 2017169056A1

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

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