

Title (en)
LIGHT WEIGHT CEMENTED CARBIDE FOR FLOW EROSION COMPONENTS

Title (de)
LEICHTES HARTMETALL FÜR FLUIDEROSIONSFESTE KOMPONENTEN

Title (fr)
CARBURES CÉMENTÉS LÉGERS POUR COMPOSANTS SOUMIS À L'ÉROSION PAR FLUIDES

Publication
EP 3240916 A1 20171108 (EN)

Application
EP 15822955 A 20151228

Priority
• US 201462098229 P 20141230
• EP 2015081284 W 20151228

Abstract (en)
[origin: WO2016107843A1] A cemented carbide for a flow component for controlling the pressure and flow of well products includes in wt%: about 7 to about 9 Co; about 5 to about 7 Ni; about 19 to about 24 Ti C; about 1.5 to about 2.5 Cr₃C₂; about 0.1 to about 0.3 Mo and balance of WC. A cemented carbide for fluid handling components and seal ring a comprises in wt %: about 1 to about 30 Ti C; about 12 to about 20 Co + Ni; about 0.5 to about 2.5 Cr; about 0.1 to about 0.3 Mo and balance of WC. A cemented carbide for fluid handling components and seal ring a comprises in wt %: about 15 to about 30 Ti C; about 5 to about 20 Ni; about 0.5 to about 2. Cr; about 0.5 to about 2.5 Mo and balance of WC.

IPC 8 full level
C22C 1/05 (2006.01); **B22F 3/15** (2006.01); **C22C 19/05** (2006.01); **C22C 29/02** (2006.01); **C22C 29/06** (2006.01); **C22C 29/08** (2006.01)

CPC (source: EP RU US)
B22F 3/156 (2013.01 - RU); **C22C 1/051** (2013.01 - EP RU US); **C22C 19/055** (2013.01 - EP US); **C22C 29/02** (2013.01 - EP US); **C22C 29/067** (2013.01 - EP RU US); **C22C 29/08** (2013.01 - EP RU US); **B22F 3/156** (2013.01 - US); **B22F 2999/00** (2013.01 - US)

Citation (search report)
See references of WO 2016107843A1

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)
BA ME

DOCDB simple family (publication)
WO 2016107843 A1 20160707; AU 2015373452 A1 20170629; CA 2970584 A1 20160707; EP 3240916 A1 20171108; EP 3240916 B1 20190918; ES 2759730 T3 20200512; MX 2017008637 A 20171011; MY 179165 A 20201030; RU 2675432 C1 20181219; SG 11201704721U A 20170728; US 2018002783 A1 20180104

DOCDB simple family (application)
EP 2015081284 W 20151228; AU 2015373452 A 20151228; CA 2970584 A 20151228; EP 15822955 A 20151228; ES 15822955 T 20151228; MX 2017008637 A 20151228; MY PI2017000913 A 20151228; RU 2017127054 A 20151228; SG 11201704721U A 20151228; US 201515540907 A 20151228