

Title (en)

Use of a fluid to prepare hardmetals

Title (de)

Verwendung einer Flüssigkeit zur Aufbereitung von Hartmetallen

Title (fr)

Usage d'un liquide pour la production de métaux durs

Publication

**EP 1666616 A1 20060607 (DE)**

Application

**EP 05018858 A 20050831**

Priority

DE 102004053221 A 20041104

Abstract (en)

A liquid for use in working up hard metal-based powder mixtures contains (A) water; and (B) an inhibitor comprising a polyvinyl lactam or a wax emulsion.

IPC 8 full level

**C22C 1/05** (2006.01); **B22F 1/10** (2022.01)

CPC (source: EP US)

**B22F 1/10** (2022.01 - EP US); **B22F 9/04** (2013.01 - EP US); **C22C 1/051** (2013.01 - EP US); **B22F 2009/042** (2013.01 - EP US); **B22F 2009/043** (2013.01 - EP US)

Citation (search report)

- [X] US 5922978 A 19990713 - CARROLL DANIEL F [US]
- [X] US 5590387 A 19961231 - SCHMIDT HELMUT [DE], et al
- [X] US 2003075012 A1 20030424 - KNUNZ GERHARD [AU], et al
- [X] EP 1375035 A1 20040102 - CATALYSTS & CHEM IND CO [JP]

Cited by

EP2860274A2; US10538829B2; EP2857124A1; US9475945B2; US9796633B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

HR

DOCDB simple family (publication)

**DE 102004053221 B3 20060202**; DE 502005002035 D1 20080103; EP 1666616 A1 20060607; EP 1666616 B1 20071121; US 2006091579 A1 20060504; US 7531022 B2 20090512

DOCDB simple family (application)

**DE 102004053221 A 20041104**; DE 502005002035 T 20050831; EP 05018858 A 20050831; US 24987605 A 20051013