

Title (en)

Foundry binder system with low emission of aromatic hydrocarbons

Title (de)

Giessereibindemittelsysteme mit niedriger Emission von aromatischen Kohlenwasserstoffen

Title (fr)

Liants pour la fonderie avec émission faible d'hydrocarbures aromatiques

Publication

EP 1531018 B1 20090415 (EN)

Application

EP 04105709 A 20041111

Priority

IT MI20032217 A 20031114

Abstract (en)

[origin: EP1531018A1] A description is given of an acid hardener which can be used in the preparation of furan resin-based foundry binder systems of the no-bake type having the following composition by weight: a) water 10-50% b) sulphuric acid 0.5-40% c) aliphatic hydroxy acid 10-60% d) arylsulphonic acid 0-20% <??>This hardener eliminates or in any case reduces the emissions of aromatic hydrocarbons and benzene in particular which usually occur during the use of conventional furan resin-based binders.

IPC 8 full level

B22C 1/20 (2006.01); **B22C 1/22** (2006.01)

CPC (source: EP)

B22C 1/10 (2013.01); **B22C 1/224** (2013.01)

Cited by

WO2009141158A1; WO2012080454A1; CN114393175A; CN105964884A; AU2011203691B2; ITMI20091945A1; CN113385634A; CN103998319A; ITUB20150307A1; CN102076440A; EA021549B1; JP2015150580A; CN103379971A; EP3495073A3; US10562547B2; US11565728B2; US10112629B2; WO2011084992A1; WO2019001382A1; US8919421B2; DE102016123051A1; WO2018099887A1; US11338356B2; US8485371B2; US8783481B2; US9079590B2; US9505418B2; DE202011110617U1; US9993863B2; EP3495073A2

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