

Title (en)  
FEEDER SLEEVE, FORMING ELEMENT FOR THE FEEDER SLEEVE AND METHOD FOR CASTING METAL USING THE SAME

Title (de)  
SPEISEREINSATZ, FORMELEMENT FÜR DEN SPEISEREINSATZ UND VERFAHREN ZUM GIESSEN VON METALL UNTER VERWENDUNG DERSELBEN

Title (fr)  
MANCHON DE MASSELOTTE, ÉLÉMENT DE FORMAGE DU MANCHON DE MASSELOTTE ET PROCÉDÉ DE COULÉE DE MÉTAL LES UTILISANT

Publication  
**EP 3003601 B1 20171025 (DE)**

Application  
**EP 14728498 A 20140527**

Priority  
• DE 102013209775 A 20130527  
• EP 2014060980 W 20140527

Abstract (en)  
[origin: WO2014191423A1] A description is given of a feeder sleeve (2, 2', 2'', 2''', 2IV) for use in the casting of metals in vertically divisible casting moulds, with a first forming element (8, 8', 8'' 8''' 8IV) and a second forming element (10), which (i) are telescopically movable in relation to one another, (ii) bound a feeder cavity (30) for receiving liquid metal and (iii) are designed for positioning by means of a centring pin (20, 22') that can be positioned along a centring axis (28), wherein the first forming element (8, 8', 8'' 8''' 8IV) has a passage opening (18) for the liquid metal, and wherein the feeder cavity (30) is configured in such a way that, with a horizontal arrangement of the centring axis (28), a predominant part of the volume of the feeder cavity (30) can be positioned above the centring axis.

IPC 8 full level  
**B22C 9/08** (2006.01)

CPC (source: EP US)  
**B22C 9/088** (2013.01 - EP US); **B22D 35/04** (2013.01 - US)

Citation (opposition)  
Opponent : ASK Chemicals GmbH  
• DE 202011103718 U1 20120731 - FOSECO INT [GB]  
• EP 1184104 A1 20020306 - CHEMEX GMBH [DE]  
• WO 2005051568 A1 20050609 - FOSECO INT [GB], et al  
• DE 202012102418 U1 20130516 - FOSECO INT [GB]  
• DE 202012010986 U1 20130318 - FOSECO INT [GB]

Cited by  
EP3695917A1; US11358212B2

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DOCDB simple family (publication)  
**DE 102013209775 B3 20141023**; BR 112015029494 A2 20170725; BR 112015029494 B1 20201006; CN 105246618 A 20160113; CN 105246618 B 20170613; EP 3003601 A1 20160413; EP 3003601 B1 20171025; EP 3003601 B2 20230927; ES 2655451 T3 20180220; ES 2655451 T5 20240514; HU E035886 T2 20180528; JP 2016522753 A 20160804; JP 6402326 B2 20181010; KR 102143934 B1 20200813; KR 20160013184 A 20160203; MX 2015016323 A 20160916; PL 3003601 T3 20180330; PL 3003601 T5 20231218; SI 3003601 T1 20180228; US 10124401 B2 20181113; US 2016101461 A1 20160414; WO 2014191423 A1 20141204

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**DE 102013209775 A 20130527**; BR 112015029494 A 20140527; CN 201480030860 A 20140527; EP 14728498 A 20140527; EP 2014060980 W 20140527; ES 14728498 T 20140527; HU E14728498 A 20140527; JP 2016516132 A 20140527; KR 20157036697 A 20140527; MX 2015016323 A 20140527; PL 14728498 T 20140527; SI 201430569 T 20140527; US 201414893710 A 20140527