

Title (en)  
METHOD USING AN INORGANIC BINDER FOR PRODUCING CURED THREE-DimensionALLY LAYERED SHAPED BODIES FOR FOUNDRY CORES AND MOULDS

Title (de)  
VERFAHREN UNTER VERWENDUNG EINES ANORGANISCHEN BINDERS FÜR DIE HERSTELLUNG VON AUSGEHÄRTETEN DREIDIMENSIONAL GESCHICHTETEN FORMKÖRPERN FÜR GIEßEREIKERNE UND -FORMEN

Title (fr)  
PROCÉDÉ UTILISANT UN LIANT INORGANIQUE POUR PRODUIRE DES CORPS TRIDIMENSIONNELS DURCIS FAÇONNÉS EN COUCHES POUR NOYAUX ET MOULES DE FONDERIE

Publication  
**EP 4135918 A1 20230222 (DE)**

Application  
**EP 21719559 A 20210413**

Priority  
• DE 102020110289 A 20200415  
• EP 2021059508 W 20210413

Abstract (en)  
[origin: WO2021209423A1] The invention relates to a method for building up layer by layer cured three-dimensionally layered shaped bodies for foundry cores and moulds from a refractory moulding base material (1) with an average grain size ranging from 0.1 mm to 2.0 mm and to the use of an inorganic binder (3) containing an alkali-silicate solution for producing cured three-dimensionally layered shaped bodies for foundry cores and moulds.

IPC 8 full level  
**B22C 1/00** (2006.01); **B22C 1/18** (2006.01); **B22C 9/02** (2006.01); **B22C 9/10** (2006.01); **B28B 1/00** (2006.01); **B33Y 10/00** (2015.01); **B33Y 70/00** (2015.01); **B33Y 80/00** (2015.01); **C04B 28/26** (2006.01)

CPC (source: EP)  
**B22C 1/00** (2013.01); **B22C 1/188** (2013.01); **B22C 9/02** (2013.01); **B22C 9/10** (2013.01); **B33Y 10/00** (2014.12); **B33Y 70/00** (2014.12); **B33Y 80/00** (2014.12); **C04B 28/26** (2013.01); **C04B 2111/00181** (2013.01); **C04B 2111/00431** (2013.01); **C04B 2111/00939** (2013.01)

Citation (search report)  
See references of WO 2021209423A1

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**DE 102020110289 A1 20211021**; EP 4135918 A1 20230222; WO 2021209423 A1 20211021

DOCDB simple family (application)  
**DE 102020110289 A 20200415**; EP 2021059508 W 20210413; EP 21719559 A 20210413