

Title (en)
BOTTOM GAS EXTRACTION SYSTEM FOR MANUFACTURING STEEL CAST COMPONENTS WITH REDUCED INCLUSION CONTENT

Title (de)
BODENGASEXTRAKTIONSSYSTEM ZUR HERSTELLUNG VON STAHLGUSSKOMPONENTEN MIT REDUZIERTEM EINSCHLUSSGEHALT

Title (fr)
SYSTÈME D'EXTRACTION DE GAZ DE FOND POUR LA FABRICATION DE COMPOSANTS EN ACIER MOULÉS À CONTENU D'INCLUSION RÉDUIT

Publication
EP 4205877 A1 20230705 (EN)

Application
EP 21383233 A 20211229

Priority
EP 21383233 A 20211229

Abstract (en)
A gas extraction system for extracting gas generated when casting metal articles by a sand moulding process using a casting device that comprises an upper sand mold (4) a lower sand mold (5) and a support table (6) for supporting the molds (4,5). The extraction system comprises a gas chamber (9) located between the top surface (7a) of the support table (6) and a bottom surface (5a) of the lower sand mold (5): The gas chamber (9) is connected to a vacuum pump (13).

IPC 8 full level
B22C 9/02 (2006.01); **B22C 21/00** (2006.01); **B22D 45/00** (2006.01)

CPC (source: EP)
B22C 9/02 (2013.01); **B22C 21/00** (2013.01); **B22D 45/005** (2013.01)

Citation (search report)

- [X] US 4742863 A 19880510 - WITT RAYMOND H [US]
- [X] US 4674553 A 19870623 - WITT RAYMOND H [US]
- [A] WO 8909666 A1 19891019 - RIKKER LESLIE D [US]
- [A] EP 3320999 A1 20180516 - FISCHER GEORG GMBH [DE]

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)
EP 4205877 A1 20230705

DOCDB simple family (application)
EP 21383233 A 20211229