

Title (en)  
MOLD

Title (de)  
FORM

Title (fr)  
MOULE

Publication  
**EP 4265352 A4 20240529 (EN)**

Application  
**EP 21907125 A 20211216**

Priority  
• KR 20200177618 A 20201217  
• KR 2021019194 W 20211216

Abstract (en)  
[origin: EP4265352A1] In accordance with an exemplary embodiment, a mold having an inner space to which molten steel is injected includes a body having the inner space, and an inner surface of the body, which heads toward the inner space, includes a first inclined surface that is inclined to be gradually away from an outer surface opposite to the inner surface in a downward direction and a second inclined surface that is disposed below the first inclined surface and inclined to be gradually close to the outer surface in the downward direction. In accordance with exemplary embodiments, a compensation rate for shrinkage of a solidified shell is improved. That is, a compensation rate for shrinkage in a long side direction and a short side direction of the solidified shell is improved by a convex member and the inclined surface disposed on the inner surface of the body. Particularly, a compensation rate for shrinkage of the solidified shell at an upper portion of the inner space of the mold is improved. Thus, a gap occurring between the solidified shell and the inner surface of the mold caused by the shrinkage of the solidified shell may be suppressed or prevented, and a solidification delay phenomenon caused by the gap may be suppressed or prevented. Therefore, occurrence of break out and a defect on a surface of a slab may be suppressed or prevented.

IPC 8 full level  
**B22D 11/04** (2006.01); **B22D 11/041** (2006.01)

CPC (source: EP KR)  
**B22D 11/0406** (2013.01 - EP KR); **B22D 11/041** (2013.01 - EP KR)

Citation (search report)  
• [X1] JP 5180876 B2 20130410  
• [X1] JP 5673149 B2 20150218  
• [X1] JP 2012250274 A 20121220 - MISHIMA KOSAN CO LTD, et al  
• [A] WO 2019221469 A1 20191121 - POSCO [KR]  
• See references of WO 2022131821A1

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

DOCDB simple family (publication)  
**EP 4265352 A1 20231025; EP 4265352 A4 20240529**; CN 116615294 A 20230818; JP 2023546152 A 20231101; KR 102441319 B1 20220908; KR 20220087174 A 20220624; WO 2022131821 A1 20220623

DOCDB simple family (application)  
**EP 21907125 A 20211216**; CN 202180070277 A 20211216; JP 2023523306 A 20211216; KR 20200177618 A 20201217; KR 2021019194 W 20211216