

Title (en)
STAVE PROTECTION SYSTEM

Title (de)
PLATTENKÜHLERSCHUTZSYSTEM

Title (fr)
SYSTÈME DE PROTECTION DE DOUVE

Publication
EP 4279616 A1 20231122 (EN)

Application
EP 22173582 A 20220516

Priority
EP 22173582 A 20220516

Abstract (en)
A stave protection system for a metallurgical furnace comprises: a stave (100) comprising upper and lower ribs (114) projecting forwardly from a front face (102) of the stave (100) and spaced apart from each other so as to define a transverse groove (112); at least one insert (200) partially located in the groove (112) and fixedly engaged with the upper and lower ribs (114) so as to project forwardly thereof; and a brace (300; 400) located between a front surface (114a) of the lower rib (114) and an opposing rear surface (212) of the insert (200), such that in use the brace (300; 400) opposes a force (FD, FL, FR) applied to the insert (200) so as to resist displacement of the opposing rear surface (212) of the insert (200) toward the front surface (114a) of the lower rib (114).

IPC 8 full level
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CPC (source: CN EP)
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Citation (applicant)
• WO 2019175244 A1 20190919 - PRIMETALS TECH LIMITED [GB]
• CN 214470084 U 20211022 - PRIMETALS TECH LIMITED

Citation (search report)
• [I] EP 3087206 B1 20171108 - WURTH PAUL SA [LU]
• [I] EP 3540081 A1 20190918 - PRIMETALS TECH LIMITED [GB]
• [A] EP 1788308 A2 20070523 - KARRENA 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 4279616 A1 20231122; **EP 4279616 A8 20240103**; CN 117070684 A 20231117; CN 220579319 U 20240312; WO 2023222423 A1 20231123

DOCDB simple family (application)
EP 22173582 A 20220516; CN 202310553684 A 20230516; CN 202321181664 U 20230516; EP 2023062086 W 20230508