

Title (en)
Gas-flushing brick.

Title (de)
Gasspülstein.

Title (fr)
Brique pour rinçage au gaz.

Publication
EP 0362475 A2 19900411 (DE)

Application
EP 89110933 A 19890616

Priority
DE 3833503 A 19881001

Abstract (en)
[origin: JPH02130390A] PURPOSE: To solidify any molten metal that breaks through a wearable brick part at a fixed brick part before reaching a gas coupling pipe by employing a material having higher thermal conductivity at the fixed part as compared with a wearable part and extending the flow passage to the fixed part. CONSTITUTION: A gas washing brick 1 has a wearable part 2 and a fixed part 3. The wearable part 2 contains high thermal conductivity particles in addition to a refractory material and a large number of gas flow passages 4 extending not only to the wearable part 2 but into the fixed part 3. These gas passages 4 open to a gas distribution space 5 in the part 3. When the part 2 wears a molten metal intrudes into the part 2 along a line (a) and reaches the part 3. Since the part 3 has high thermal conductivity, heat is robbed very quickly from the molten metal which is thereby solidified and prevented from reaching the gas distribution space 5 and a cover part 6.

Abstract (de)
Ein Gasspülstein für ein metallurgisches Schmelzengefäß weist ein Verschleißteil (2) und ein Sicherungsteil (3) auf. Die Betriebssicherheit ist dadurch verbessert, daß das Material des Sicherungsteils (3) wärmeleitfähiger als das Material des Verschleißteils (2) ist und daß Gasdurchgangspfade (4) auch im Sicherungsteil (3) verlaufen.

IPC 1-7
B22D 1/00; **C21C 7/072**

IPC 8 full level
B22D 41/00 (2006.01); **B22D 1/00** (2006.01); **F27D 3/16** (2006.01)

CPC (source: EP KR US)
B22D 1/005 (2013.01 - EP US); **C21C 5/46** (2013.01 - KR)

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AT BE CH DE ES FR GB IT LI LU NL SE

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