

Title (en)

Monolithic refractory layer for metallurgical vessels and method of application.

Title (de)

Monolithische feuerfeste Schicht für metallurgische Gefäße und Anwendungsverfahren.

Title (fr)

Couche monolithique et réfractaire pour récipients métallurgiques et méthode d'utilisation.

Publication

**EP 0064863 A1 19821117 (EN)**

Application

**EP 82302299 A 19820505**

Priority

JP 6894081 A 19810508

Abstract (en)

A seamless monolithic refractory layer for a metallurgical vessel is prepared by a method which comprises positioning within the vessel (15) a mold (16) having an outer surface (18) substantially conforming to the configuration of the inner surface (20) of the vessel so as to provide a substantially uniform space (22) between the mold outer surface and the vessel inner surface, filling the space (22) with substantially dry particulate mixture (35) comprising at least about 70 weight percent refractory aggregate and at least about 0.5 weight percent thermosetting resin, heating the mixture to cure the resin and removing the mold. The refractory aggregate may include from about 0.5 to 10 weight percent inorganic binder with from about 0.5 to 10 weight percent inorganic hydrate to improve the inorganic binder effectiveness and may also include up to about 10 weight percent fiber. The refractory layer is particularly suitable as the working layer of a tundish.

IPC 1-7

**C21C 5/44**; **F27D 1/16**; **B22D 11/10**

IPC 8 full level

**B22C 9/00** (2006.01); **B22C 1/00** (2006.01); **B22D 11/10** (2006.01); **B22D 41/02** (2006.01); **C21C 5/44** (2006.01); **F27D 1/16** (2006.01)

CPC (source: EP KR)

**B22C 1/00** (2013.01 - KR); **B22C 9/00** (2013.01 - KR); **B22D 41/02** (2013.01 - EP); **C21C 5/443** (2013.01 - EP); **F27D 1/1626** (2013.01 - EP)

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Designated contracting state (EPC)

BE DE FR GB IT LU NL SE

DOCDB simple family (publication)

**EP 0064863 A1 19821117**; **EP 0064863 B1 19860709**; AR 229359 A1 19830729; AU 535166 B2 19840308; AU 835198 A 19821125; BR 8202659 A 19830419; CA 1198571 A 19851231; DE 3271931 D1 19860814; ES 272636 U 19840316; ES 272636 Y 19841016; ES 512025 A0 19830616; ES 8307145 A1 19830616; IE 52857 B1 19880330; IE 821097 L 19821108; IN 157802 B 19860628; JP S57184884 A 19821113; JP S6110756 B2 19860331; KR 830009821 A 19831223; KR 870002163 B1 19871214; MX 156696 A 19880927; NZ 200538 A 19850531; ZA 823151 B 19830330

DOCDB simple family (application)

**EP 82302299 A 19820505**; AR 28931982 A 19820506; AU 8351982 A 19820507; BR 8202659 A 19820507; CA 402269 A 19820505; DE 3271931 T 19820505; ES 272636 U 19830601; ES 512025 A 19820507; IE 109782 A 19820507; IN 201DE1982 A 19820311; JP 6894081 A 19810508; KR 820001994 A 19820507; MX 19259482 A 19820507; NZ 20053882 A 19820506; ZA 823151 A 19820507