Title (en)

MONOLITHIC REFRACTORY LAYER FOR METALLURGICAL VESSELS AND METHOD OF APPLICATION

Publication

EP 0064863 B1 19860709 (EN)

Application

EP 82302299 A 19820505

Priority

JP 6894081 A 19810508

Abstract (en)

[origin: EP0064863A1] 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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AT394055B; EP0434421A3; AT394054B; US5916500A; US5632937A; US5340088A; US5484138A; US5511762A; US5795508A; US5423519A; AU678889B2; US4618079A; EP0505141A1; US5482248A; US5505893A; FR2585273A1; EP0214882A1; US4799652A; EP0581516A1; US5360200A; FR2657549A1; US4726569A; US8618006B2; US6284688B1; WO2008006053A2; WO9410102A1; WO9116460A1; WO9116459A1; WO9117969A1; WO8605481A1; WO2008060160A1; WO0001639A1

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