



[12] Patent

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[21] Application No.: GCC/P/2001/1600 [22] Filing Date: 28/08/2001 [30] Priority: [31] Priority No. [32] Priority date [33] State 0021343.9 31/08/2000 GB [72] Inventors: 1- David Alan Belle, 2- David Llewellyn Jones, 3- Kassim Juma [73] Owner: Foseco International Limited, Burmah Castrol House, Pipers Way, Swindon Wiltshire, SN3 1RE, United Kingdom [74] Agent: Hasan AL-Mulla	[51] Int. Cl. ⁷ : B22C 9/08; C04B 38/00; B22D 43/00 [56] Cited Documents: - US 5093289 A (BRAETSCH et al.) 03 March 1992 - US 4265659 A (BLOME) 05 May 1981 - US 3893917 A (PRYOR et al.) 08 July 1975 - WO 94/17012 A (UNIVERSITY OF CINCINNATI) 04 August 1994 - EP 0308928 A (PETOCA LTD.) 29 March 1989

[54] REFRACTORY ARTICLES

[57] Abstract: A filter for molten metal is an open-pored porous material comprising particles of refractory material embedded in and bonded together by a carbon matrix bonding material. The filter can be made by forming a porous article from refractory particles, e.g. refractory oxide, carbide or graphite, and a carbon-rich binder, e.g. tar, pitch or an organic (preferably aromatic) polymer that degrades to form carbon on pyrolysis, and then firing the porous article to generate the carbon matrix in which the refractory particles are embedded. The porous article is preferably made by coating a reticulated polyurethane foam with binder and refractory particles, and firing at preferably no higher than 800°C.

No. of claims: 22