

Title (en)

CERAMIC FILTER, METHOD FOR MANUFACTURING AND UTILIZING THIS FILTER.

Title (de)

KERAMIKFILTER, VERFAHREN ZU DESSEN HERSTELLUNG UND SEINE VERWENDUNG.

Title (fr)

FILTRE EN CERAMIQUE, PROCEDE DE FABRICATION ET UTILISATION DE CE FILTRE.

Publication

**EP 0074978 A1 19830330 (DE)**

Application

**EP 82900929 A 19820326**

Priority

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Abstract (en)

[origin: WO8203339A1] A ceramic filter having a porous structure with open alveoli, based on aluminum oxide or other highly refractory substances, particularly with a high content of alumina, is used to filter, respectively to purify molten metals of which the casting temperature is higher than 1000°C, particularly molten pig iron, during the casting in sand molds or chills. The flow speed through the filter is 200-5000 cm<sup>3</sup> of molten material per cm<sup>2</sup> of surface area of the filter per minute. The manufacturing of the ceramic filter usable as a disposable article is effected by means of a monoaluminum phosphate binder.

Abstract (fr)

Un filtre en ceramique de structure poreuse a alveoles ouvertes, a base d'oxyde d'aluminium ou d'autres substances hautement refractaires, en particulier a teneur elevee en alumine, est utilise pour filtrer, respectivement pour purifier des metaux en fusion dont la temperature de coulee est superieure a 1000 C, notamment de la fonte en fusion, lors de la coulee dans des moules en sable ou dans des coquilles. La vitesse de passage a travers le filtre s'eleve a 200 - 5000 cm<sup>3</sup> de matiere en fusion par cm<sup>2</sup> de surface du filtre par minute. La fabrication du filtre en ceramique utilisable a la maniere d'un article a jeter est realisee a l'aide d'un liant au phosphate de monoaluminium.

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