

(19) World Intellectual Property Organization  
International Bureau



\*G00002\*

(43) International Publication Date  
7 February 2002 (07.02.2002)

PCT

(10) International Publication Number  
**WO 02/10067 A1**

(51) International Patent Classification<sup>7</sup>: **C01C 3/02**,  
C01B 21/26, B01J 15/00, 12/00, 8/00, 35/06

(21) International Application Number: PCT/IB01/01692

(22) International Filing Date: 27 July 2001 (27.07.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
00/09937 28 July 2000 (28.07.2000) FR

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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EF, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

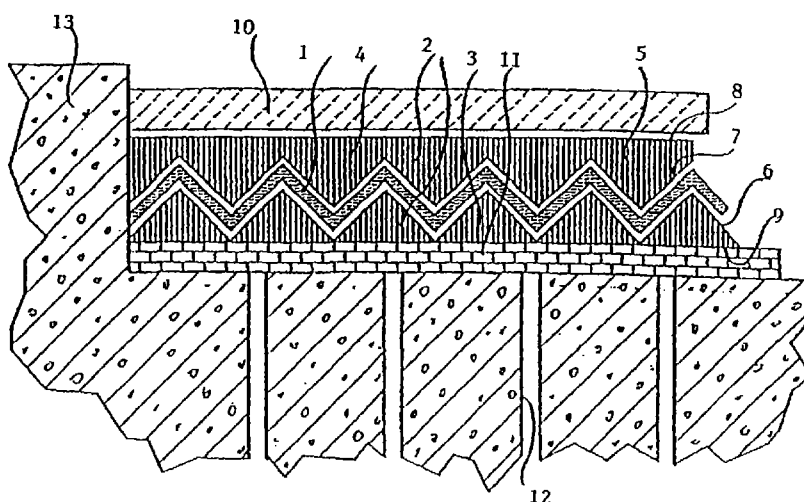
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **NEW CATALYTIC DEVICE FOR THE IMPLEMENTATION OF A REACTION IN A GASEOUS MEDIUM AT HIGH TEMPERATURE**



(57) Abstract: The present invention relates to a catalytic device for the implementation of a reaction in a gaseous medium at high temperature, such as, for example, the synthesis of HCN or the oxidation of ammonia, comprising: at least one textured material (1) which is effective as catalyst for the said reaction, a support (2) comprising at least one ceramic part (3), the structure of which makes possible the passage of the gases, the said part (3) of the said support (2) having a corrugated face (6), so that the increase in surface area ( $\beta$ ) produced by the corrugations with respect to a flat surface is at least equal to that ( $\alpha$ ) calculated for sawtooth corrugations and of between approximately 1.1 and approximately 3, the said textured material (1) being positioned so that it is held against the corrugated face (6) of the said part (3) of the said support (2) and follows the form thereof.

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