

Title (en)  
YTTRIUM-DOPED ZIRCONIA BIOMEDICAL COMPONENT

Title (de)  
BIOMEDIZINISCHE KOMPONENTE AUS MIT YTTRIUM DOTIERTEM ZIRKONOXID

Title (fr)  
COMPOSANT BIOMEDICAL EN ZIRCONE DOPEE A L'YTTRIUM

Publication  
**EP 1276517 A2 20030122 (FR)**

Application  
**EP 01929718 A 20010426**

Priority  
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• US 20012300 P 20000427

Abstract (en)  
[origin: WO0180917A2] The invention concerns a biomedical component consisting of an yttrium-doped tetragonal zirconia ceramic, comprising at least 90 mole % of zirconia and at least 2.1 mole % of yttrium oxide, between 0.01 and 1 wt. % of alumina Al<sub>2</sub>O<sub>3</sub>, said zirconia ceramic having a density of at least 99 % of the theoretical density, an average grain size, measured by the linear intercept method, not more than 1  $\mu$ m and a homogeneous yttrium distribution.

IPC 1-7  
**A61L 27/10**; **A61F 2/28**; **C04B 35/488**

IPC 8 full level  
**A61C 13/087** (2006.01); **A61F 2/32** (2006.01); **A61F 2/34** (2006.01); **A61F 2/36** (2006.01); **A61F 2/38** (2006.01); **A61F 2/44** (2006.01); **A61L 27/00** (2006.01); **A61L 27/10** (2006.01); **C04B 35/48** (2006.01); **A61F 2/00** (2006.01); **A61F 2/30** (2006.01)

CPC (source: EP US)  
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