

Title (en)

GERMANIUM ON GLASS AND GLASS-CERAMIC STRUCTURES

Title (de)

GERMANIUM-AUF-GLAS- UND GLAS-KERAMIK-STRUKTUREN

Title (fr)

GERMANIUM SUR DES STRUCTURES EN VERRE OU VERRE-CERAMIQUE

Publication

EP 1974375 A2 20081001 (EN)

Application

EP 06849096 A 20061222

Priority

- US 2006049272 W 20061222
- US 75593406 P 20060103
- US 41573206 A 20060501

Abstract (en)

[origin: WO2007079077A2] A semiconductor-on-insulator structure including first and second layers which are attached to one another either directly or through one or more intermediate layers. The first layer includes a substantially single crystal germanium semiconductor material while the second layer comprises a glass or a glass-ceramic material having a linear coefficient thermal of expansion (25-300 °C) which is within the range of +/- 20x10⁻⁷/°C of the linear coefficient thermal of expansion of the germanium first layer.

IPC 8 full level

H01L 21/762 (2006.01); **C03C 3/04** (2006.01); **H01L 21/20** (2006.01); **H01L 21/84** (2006.01)

CPC (source: EP KR US)

C03C 3/062 (2013.01 - EP); **C03C 3/068** (2013.01 - EP); **C03C 3/085** (2013.01 - EP); **C03C 3/087** (2013.01 - EP); **C03C 3/091** (2013.01 - EP); **C03C 3/095** (2013.01 - EP); **C03C 27/00** (2013.01 - EP); **H01L 21/20** (2013.01 - KR); **H01L 21/76254** (2013.01 - EP); **H01L 27/1203** (2013.01 - US); **H01L 27/1214** (2013.01 - EP); **H01L 29/78603** (2013.01 - EP); **H01L 29/78684** (2013.01 - EP)

Citation (search report)

See references of WO 2007079077A2

Designated contracting state (EPC)

DE FR

DOCDB simple family (publication)

WO 2007079077 A2 20070712; WO 2007079077 A3 20071213; CN 101371348 A 20090218; CN 101371348 B 20111116; EP 1974375 A2 20081001; JP 2009528673 A 20090806; KR 20080092403 A 20081015

DOCDB simple family (application)

US 2006049272 W 20061222; CN 200680052647 A 20061222; EP 06849096 A 20061222; JP 2008549505 A 20061222; KR 20087019021 A 20080801