

Title (en)  
MICROWAVE READABLE DIELECTRIC BARCODE

Title (de)  
MIKROWELLENLESBARER DIELEKTRISCHER STRICHCODE

Title (fr)  
CODE A BARRE DIELECTRIQUE POUVANT ETRE LU AU MICRO-ONDES

Publication  
**EP 1820033 A4 20081022 (EN)**

Application  
**EP 05853559 A 20051208**

Priority  

- US 2005044675 W 20051208
- SE 0402996 A 20041209
- US 59496105 P 20050523

Abstract (en)  
[origin: WO2006107352A2] Presented is a system and method for reading a microwave readable barcode formed from a pattern of dielectric material. The dielectric pattern creates a strong microwave contrast with the surrounding media selectively resonating with or scattering an interrogating microwave signal. Dielectric bars can be fabricated by inkjet printing, injection, spraying, drawing or any other technique. Barcode information is encoded using different lengths, angles, or positions of dielectric bars. A microwave readable dielectric barcode system includes a barcode fabricated from a dielectric material, a transmitter with an antenna, and a sensor that senses the effect produced by the dielectric barcode on the microwave signal. The dielectric barcode system can use multiple microwave signals that differ in one or more respects, such as polarization or frequency.

IPC 8 full level  
**G01R 27/04** (2006.01); **G01R 27/28** (2006.01)

CPC (source: EP)  
**G06K 19/0672** (2013.01)

Citation (search report)  

- [DA] EP 1065623 A2 20010103 - XEROX CORP [US]
- [A] US 2002063156 A1 20020530 - MARCHAND J F PHILIPPE [US]
- [A] EP 0845754 A1 19980603 - GORDIAN HOLDING CORP [US]
- See references of WO 2006107352A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2006107352 A2 20061012; WO 2006107352 A3 20070823**; AU 2005330315 A1 20061012; AU 2005330315 A2 20061012; BR PI0518879 A2 20081230; CA 2589946 A1 20061012; EP 1820033 A2 20070822; EP 1820033 A4 20081022

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**US 2005044675 W 20051208**; AU 2005330315 A 20051208; BR PI0518879 A 20051208; CA 2589946 A 20051208; EP 05853559 A 20051208