

Title (en)  
SCANNING NEAR FIELD ULTRASOUND HOLOGRAPHY

Title (de)  
RASTER-NAHFELD-ULTRASCHALL-HOLOGRAFIE

Title (fr)  
HOLOGRAPHIE ULTRASONORE DE CHAMP PROCHE A BALAYAGE

Publication  
**EP 1952204 A4 20111214 (EN)**

Application  
**EP 05808603 A 20051006**

Priority  
US 2005036194 W 20051006

Abstract (en)  
[origin: WO2007044002A1] A high spatial resolution phase-sensitive technique employs a scanning near field ultrasound holography methodology (47) for imaging elastic as well as viscoelastic variations across a sample surface. Scanning near field ultrasound holography (47) uses a near-field approach to measure time-resolved variations in ultrasonic oscillations at a sample surface (12). As such, it overcomes the spatial resolution limitations of conventional phase-resolved acoustic microscopy (i.e. holography) by eliminating the need for far-field acoustic lenses.

IPC 8 full level  
**G03H 3/00** (2006.01); **B82Y 15/00** (2011.01); **G01N 29/06** (2006.01); **G01Q 30/20** (2010.01); **G01Q 60/00** (2010.01); **G01Q 60/34** (2010.01)

CPC (source: EP KR)  
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Citation (search report)  
• [XDI] US 2005056782 A1 20050317 - SHEKHAWAT GAJENDRA [US], et al  
• [A] WO 9808046 A1 19980226 - ISIS INNOVATION [GB], et al  
• See references of WO 2007044002A1

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 2007044002 A1 20070419**; CN 101317138 A 20081203; CN 101317138 B 20110504; EP 1952204 A1 20080806; EP 1952204 A4 20111214; JP 2009511876 A 20090319; JP 4746104 B2 20110810; KR 101033342 B1 20110509; KR 20080068689 A 20080723

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**US 2005036194 W 20051006**; CN 200580051779 A 20051006; EP 05808603 A 20051006; JP 2008534510 A 20051006; KR 20087010870 A 20051006