

Title (en)

APPARATUS FOR IMPROVED SHOCK-WAVE LITHOTRIPSY (SWL) USING A PIEZOELECTRIC ANNULAR ARRAY (PEAA) SHOCK-WAVE GENERATOR IN COMBINATION WITH A PRIMARY SHOCK WAVE

Title (de)

GERÄT FÜR DIE VERBESSERTE SCHOCKWELLEN-LITHOTRIPSIE (SWL) MIT EINEM PIEZOELEKTRISCHEN RINGFÖRMIGEN (PEAA) STOSSWELLENGENERATOR IN KOMBINATION MIT EINER PRIMÄREN STOSSWELLE

Title (fr)

PROCEDE DE LITHOTRIPSIE PAR ONDE DE CHOC AMELIOREE A GENERATEUR COMBINE D'ONDE DE CHOC A RESEAU PIEZOELECTRIQUE ANNULAIRE ET HYDRAULIQUE

Publication

**EP 1701659 A4 20100407 (EN)**

Application

**EP 03818331 A 20030814**

Priority

US 0325305 W 20030814

Abstract (en)

[origin: WO2005018469A1] Six focused sets of piezoelectric elements (212) are positioned around the reflector R and the axis of the primary shock wave source (210) to form a combined shock wave generator (200).

IPC 8 full level

**A61B 17/22** (2006.01); **G10K 15/04** (2006.01)

CPC (source: EP)

**A61B 17/225** (2013.01); **G10K 15/043** (2013.01); **A61B 2017/22008** (2013.01); **A61B 2017/22027** (2013.01); **A61B 2017/22028** (2013.01)

Citation (search report)

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- [AD] US 5582578 A 19961210 - ZHONG PEI [US], et al
- [A] US 6298264 B1 20011002 - ZHONG PEI [US], et al
- [A] US 2003093013 A1 20030515 - ZHONG PEI [US], et al
- [YD] XI X ET AL: "Improvement of stone fragmentation during shock-wave lithotripsy using a combined EH/PEAA shock-wave generator-in vitro experiments", ULTRASOUND IN MEDICINE AND BIOLOGY, NEW YORK, NY, US, vol. 26, no. 3, 1 March 2000 (2000-03-01), pages 457 - 467, XP004295535, ISSN: 0301-5629
- See references of WO 2005018469A1

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