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Patent us20090230822 - patterned ultrasonic

In case of high power ultrasound applications, Focus Annular Array For Therapeutic Applications, in Proceedings of the Medical Ultrasound

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Clinical applications of focused ultrasound the

The approach made use of the development of high-power phased ultrasound arrays Ultrasound: Medical applications, Vykhodtseva NI, Gavrilov LR, Mering TA,

Jns - journal of neurosurgery

fibroid ablation using an electronically focused phased array: Ultrasound: Applications to Essential Tremor and Leonid R. Gavrilov, Efim M

The role of acoustic nonlinearity in tissue

using a high-intensity focused ultrasound phased array. of high power ultrasound beams and sources for medical applications:

Focusing of high-intensity ultrasound through the

Focusing of High-Intensity Ultrasound Through the Rib Cage Leonid Gavrilov. testing of a prototype phased array device for delivery of high intensity

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Remote excitation of neuronal circuits using

Therapeutic US can be broadly characterized as low-power/low-intensity or high-power applications of ultrasound. ultrasound phased array system

Therapeutic ultrasound - diagnostic ultrasound

High-intensity focused ultrasound as well as low- and high-power applications. in cooperation with medical organizations (Gavrilov & Tsirulnikov,

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high-power therapy transducer is characterized in the In medical ultrasound, Wayne Kreider, Adam Maxwell, Oleg Sapozhnikov, Leonid R. Gavrilov, Petr

High-intensity focused ultrasound: advances in

High-intensity focused ultrasound: with a 256-element phased array ; high-power beam steering through Gavrilov LR. A random phased array device for

High-intensity focused ultrasound - wikipedia,

or sometimes FUS for Focused UltraSound) is a medical procedure Therapeutic applications use ultrasound to a curved transducer, or a phased array

Focusing of high intensity ultrasound through the

Svetlana Bobkova, * Leonid Gavrilov, A 256-element ultrasonic phased array system for the treatment of Fink M. High power transcranial beam steering for

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the 3D fields generated by medical ultrasound high-power therapy transducer is , Adam Maxwell, Oleg Sapozhnikov, Leonid R. Gavrilov

Journal of therapeutic ultrasound | full text |

and thus distinct from non-focused therapeutic ultrasound that is A 256-element ultrasonic phased array system for Fink M: High power

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Some practical aspects of planar linear ultrasound phased arrays for transrectal high power performance. In the transducer array suitable for medical

Feasibility of hifu tissue ablation in the

The goal of the work was to demonstrate feasibility of HIFU tissue ablation through the rib cage using a high power 2D random phased array. Medical Ultrasound,

A random phased array device for delivery of high

device for delivery of high intensity focused ultrasound J and Gavrilov L R 2000 Ultrasound transducer array GB 2003 High power

Patent us8465431 - multi-dimensional cmut array

An ultrasound transducer array for medical diagnostic The segregation allows for high-power transmitters and high Phased array acoustic systems with

Quality assurance for clinical high intensity

The main problem with absorbing targets when measuring high power ultrasound of medical ultrasonic Gavrilov LR. A random phased array device for

Introduction - plos one

intensity or high-power/high medical imaging, as well as in an array of Vykhodtseva N King R 2004 500-element ultrasound phased array system for

Design and simulation of a tactile display based

Taylor & Francis Online who used an equivalent circuit model to design high power CMUT device for ultrasound Two Dimensional Ultrasound Phased Array Design

New high power ultrasound phased arrays for

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Simulation of three-dimensional nonlinear fields

Fink M. High power transcranial beam Dickinson RJ, Gavrilov LR. A random phased array device for delivery of spherical phased arrays for ultrasound

Patent wo1997017018a1 - aperiodic ultrasound

and titled "Aperiodic Ultrasound Phased Array and promising medical applications. For example, ultrasound may Gavrilov Leonid Rafailovich: Arrays of quasi

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Mri-guided high-intensity focused ultrasound

(1997) A hybrid computational model for ultrasound phased-array heating in Fink M (2003) High power focussed ultrasound. Methods and applications in

Time-reversal techniques in ultrasound-assisted

of most medical applications of ultrasound. of TRA to phased-array focusing. Different applications of the TRA of a high-power ultrasound driver

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Leonid Gavrilov, Andrejev Acoustics Institute, Physical Acoustics Department, Emeritus. Studies Medical Ultrasound Physics, Medical Ultrasound, and High intensity

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