

Title (en)

METHOD AND DEVICE FOR PRODUCING SHOCK WAVES FOR TECHNICAL AND SPECIALLY MEDICO-TECHNICAL APPLICATIONS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERZEUGUNG VON STOSSWELLEN FÜR TECHNISCHE, VORZUGSWEISE MEDIZINTECHNISCHE ANWENDUNGEN

Title (fr)

PROCEDE ET DISPOSITIF DE PRODUCTION D'ONDES DE CHOC POUR APPLICATIONS TECHNIQUES, DE PREFERENCE MEDICO-TECHNIQUES

Publication

**EP 0954847 B1 20010718 (DE)**

Application

**EP 98907846 A 19980121**

Priority

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Abstract (en)

[origin: DE19702593A1] Intensive pressure waves can be used as shock waves for medico-technical applications, specially for lithotripsy and/or pain therapy. To this end, sound waves with high energy density are produced by pressure pulsations. According to the invention, the pressure waves are produced by briefly heating a conductive electrolyte, wherein an electrical impulse is used for direct and substantially loss-free conversion of electrical energy in order to heat the electrolyte. A pertaining device to carry out said method is characterized by an arrangement of two electrodes (1, 2, 7, 8, 21, 22) which contain one electrolyte (3) and are controlled by an output pulse generator (5), wherein the sound waves are decoupled by suitable means into a sound propagating medium (4).

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