

Title (en)

DEVICE FOR GENERATING SHOCK WAVES FOR MEDICAL TREATMENT, IN PARTICULAR FOR ELECTRO-HYDRAULIC LITHOTRIPSY

Title (de)

VORRICHTUNG ZUR ERZEUGUNG VON STOSSWELLEN FÜR DIE MEDIZINISCHE THERAPIE, INSbesondere FÜR DIE ELEKTRO-HYDRAULISCHE LITHOTRIPSIE

Title (fr)

DISPOSITIF DE PRODUCTION D'ONDES DE CHOC POUR THERAPIE MEDICALE, EN PARTICULIER POUR LA LITHOTRIPIE ELECTRO-HYDRAULIQUE

Publication

EP 0781447 B1 19990602 (DE)

Application

EP 94928388 A 19940921

Priority

EP 9403155 W 19940921

Abstract (en)

[origin: WO9609621A1] The invention concerns a method and device for generating shock waves by spark discharge between electrodes which are intermittently fed with electric current in a fluid medium such as water. The shock waves are focused on the object to be shattered in a body. According to the invention, conductive, semiconductive or polarisable particles (15) are introduced into the fluid medium (14) between the electrodes (3, 4) and retained there owing to the fact that the medium (14) and the particles (15) it contains are accommodated in a casing (11) around the electrodes (3, 4), said casing (11) being permeable to the shock waves. A voltage breakdown in the form of a spark discharge is attained even in cases in which the distance between the electrodes has increased beyond an otherwise critical extent.

IPC 1-7

G10K 15/06

IPC 8 full level

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CPC (source: EP US)

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Cited by

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WO 9609621 A1 19960328; DE 59408375 D1 19990708; EP 0781447 A1 19970702; EP 0781447 B1 19990602; JP 3594610 B2 20041202; JP H10508221 A 19980818; US 6113560 A 20000905

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