

Title (en)

SHOCK WAVE GENERATOR FOR THE DISINTEGRATION OF CONCRETIONS IN A LIVING BODY USING NON-CONTACTING MEANS

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Application

EP 87108117 A 19870604

Priority

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Abstract (en)

[origin: US4796608A] A shock wave generator for use in an apparatus for non-contacting disintegration of calculi in the body of a life form (extracorporeal lithotripter) having a coil with helical windings and a membrane of electrically conductive material disposed opposite the coil, the membrane terminating a space filled with a liquid. The coil is connectable to a high voltage supply. The coil has two layers connected in series and overlapping each other in parallel planes, with the respective current direction and winding direction of the layers being selected in combination to intensify the magnetic fields of each layer. A layer of the coil having a smaller voltage difference relative to the membrane is disposed immediately adjacent the membrane. The arrangement increases the useful life of the membrane without significantly reducing the efficiency of converting the electrical energy into shock wave energy.

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