Title (en)

APPARATUS FOR THE SMASHING AT A DISTANCE OF CALCULUS

Publication

EP 0133665 B1 19880622 (DE)

Application

EP 84108750 A 19840724

Priority

DE 3328051 A 19830803

Abstract (en)

[origin: US4674505A] The utilization of the apparatus fundamentally lies in the medical sector. An essentially planar shock wave is generated with the assistance of a shock wave tube via a magnetic dynamic effect. This shock wave is focussed by an acoustic convergent lens, whereby the calculus to be pulverized is placed at the focal point (F) of the convergent lens. In order to couple the shock wave to the patient, the space that the shock wave traverses is filled with a coupling agent, for example water. The shock wave tube, the convergent lens and a fine adjustment for the displacement of the convergent lens relative to the shock wave tube are attached to a mounting stand so as to be pivotable in all directions. This disintegration facility comprising a shock wave tube has high operating reliability with respect to high voltage, requires low maintenance, and has only negligible imaging or focussing errors resulting from the shock wave producing membrane and the convergent lens.

IPC 1-7

A61B 17/22

IPC 8 full level

A61B 17/22 (2006.01); **A61B 17/225** (2006.01); **G10K 9/12** (2006.01); **G10K 11/30** (2006.01)

CPC (source: EP US)

G10K 9/12 (2013.01 - EP US); **G10K 11/30** (2013.01 - EP US)

Citation (examination)

- EP 0131653 A1 19850123 - OPTISCHE IND DE OUDE DELFT NV [NL]
- JP S5540257 B2 19801016
- EP-A- 013
- Akustische Beihefte, Vol. 12 (1962), Heft 1, S. 185-202

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