

Title (en)

ULTRASONIC GENERATOR FOR FEEDING ELECTRICAL POWER FOR FRAGMENTING CALCULI, LITHOTRIPSY DEVICE, LITHOTRIPSY SYSTEM AND METHOD FOR IDENTIFYING A SONOTRODE

Title (de)

ULTRASCHALLGENERATOR ZUM ZUFÜHREN EINER ELEKTRISCHEN LEISTUNG ZUM ZERTRÜMMERN VON KÖRPERSTEINEN, LITHOTRIPSIEVORRICHTUNG, LITHOTRIPSIESYSTEM UND VERFAHREN ZUM IDENTIFIZIEREN EINER SONOTRODE

Title (fr)

GÉNÉRATEUR D'ULTRASONS D'ALIMENTATION EN ÉNERGIE ÉLECTRIQUE POUR FRAGMENTER DES CALCULS, DISPOSITIF DE LITHOTRIPSIE, SYSTÈME DE LITHOTRIPSIE ET PROCÉDÉ D'IDENTIFICATION D'UNE SONOTRODE

Publication

**EP 4341010 A1 20240327 (DE)**

Application

**EP 22737642 A 20220706**

Priority

- DE 102021117569 A 20210707
- EP 2022068706 W 20220706

Abstract (en)

[origin: WO2023280905A1] The invention relates to an ultrasonic generator for feeding electrical power for fragmenting calculi, wherein the ultrasonic generator is assigned at least one sonotrode and the at least one sonotrode is detachably connectable to the ultrasonic generator, and the ultrasonic generator is assigned a vibrator for exciting a resonant vibration of the at least one sonotrode and the vibrator is excitable at a vibration frequency by supplying an AC voltage by means of the ultrasonic generator, wherein the ultrasonic generator comprises measuring equipment for measuring a specific resonant frequency of the at least one sonotrode such that, in the case of a connection, the specific resonant frequency of the at least one sonotrode is determinable by means of the measuring equipment and/or the at least one sonotrode is identifiable on account of the determined specific resonant frequency. Moreover, the invention relates to a lithotripsy device, a lithotripsy system and a method for identifying a sonotrode.

IPC 8 full level

**B06B 1/06** (2006.01); **A61B 8/12** (2006.01); **A61B 17/225** (2006.01); **B06B 3/00** (2006.01)

CPC (source: EP)

**A61B 17/22012** (2013.01); **A61B 17/320068** (2013.01); **A61B 90/90** (2016.02); **A61B 90/98** (2016.02); **B06B 1/06** (2013.01); **B06B 3/00** (2013.01); **A61B 2017/0003** (2013.01); **A61B 2017/00482** (2013.01); **A61B 2017/22014** (2013.01); **A61B 2017/320098** (2017.07)

Citation (search report)

See references of WO 2023280905A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**DE 102021117569 A1 20230112**; EP 4341010 A1 20240327; WO 2023280905 A1 20230112

DOCDB simple family (application)

**DE 102021117569 A 20210707**; EP 2022068706 W 20220706; EP 22737642 A 20220706