

Title (en)

SURGICAL INSTRUMENTS INCORPORATING ULTRASONIC AND ELECTRO-SURGICAL FUNCTIONALITY

Title (de)

CHIRURGISCHE INSTRUMENTE MIT ULTRASCHALL- UND ELEKTROCHIRURGISCHER FUNKTIONALITÄT

Title (fr)

INSTRUMENTS CHIRURGICAUX INCORPORANT UNE FONCTIONNALITÉ ULTRASONORE ET ÉLECTRO-CHIRURGICALE

Publication

EP 4132403 A1 20230215 (EN)

Application

EP 21715734 A 20210311

Priority

- US 202063007289 P 20200408
- US 2021021902 W 20210311

Abstract (en)

[origin: WO2021206852A1] A surgical instrument includes an ultrasonic transducer supported by a housing and an elongated assembly extending distally therefrom. The elongated assembly includes a jaw and a waveguide coupled to the transducer and defining a blade having upper and lower tissue-contacting surface and first and second lateral surfaces disposed therebetween that are coated with a material. The jaw is pivotable relative to the blade and includes a structural base having a backspan and first and second uprights extending from the backspan. The jaw further includes a jaw liner supported within the structural base and positioned to oppose the upper tissue-contacting surface with the first and second uprights disposed on either side of the blade. In an ultrasonic mode, ultrasonic energy produced by the transducer is transmitted along the waveguide to the blade. In an electrosurgical mode, electrosurgical energy is conducted between the blade and the first and second uprights.

IPC 8 full level

A61B 18/14 (2006.01); **A61B 17/29** (2006.01); **A61B 17/32** (2006.01)

CPC (source: EP)

A61B 17/320092 (2013.01); **A61B 18/1445** (2013.01); **A61B 18/1447** (2013.01); **A61B 18/1482** (2013.01); **A61B 2017/00367** (2013.01); **A61B 2017/2825** (2013.01); **A61B 2017/320095** (2017.07); **A61B 2018/00107** (2013.01); **A61B 2018/00589** (2013.01); **A61B 2018/00601** (2013.01); **A61B 2018/00607** (2013.01); **A61B 2018/00958** (2013.01); **A61B 2018/00994** (2013.01)

Citation (search report)

See references of WO 2021206852A1

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)

WO 2021206852 A1 20211014; CN 115397349 A 20221125; EP 4132403 A1 20230215

DOCDB simple family (application)

US 2021021902 W 20210311; CN 202180027017 A 20210311; EP 21715734 A 20210311