

Title (en)

Ultra-high-speed extracorporeal ultrasound hyperthermia treatment, method and device.

Title (de)

Ultraschallverfahren und Vorrichtung zur Behandlung mit Hyperthermie durch extrakorporalen Ultraschall.

Title (fr)

Méthode ultra-rapide et dispositif pour le traitement avec l'hyperthermie par ultrasons extracorporels.

Publication

**EP 0551225 A1 19930714 (FR)**

Application

**EP 93400012 A 19930105**

Priority

FR 9200051 A 19920107

Abstract (en)

An extracorporeal ultra-high-speed ultrasound hyperthermia treatment method consisting in transmitting and focussing on the tumor ultrasound wave trains at frequencies between 0.5 and 10 MHz with peak electric powers which may reach 20 Kw or more, the parameters which define the concentration of the treatment beam in the focal spot and the power being determined so that, irrespective of the depth and the nature of the tissue, the treatment time is in the order of that enabling significant destruction, preferably total destruction, of the target during the linear part of a curve showing the temperature increase as a function of time. <IMAGE>

IPC 1-7

**A61F 7/00**

IPC 8 full level

**A61B 8/00** (2006.01); **A61F 7/00** (2006.01); **A61N 7/02** (2006.01); **A61B 17/00** (2006.01)

CPC (source: EP US)

**A61N 7/02** (2013.01 - EP US); **A61B 2017/00154** (2013.01 - EP US)

Citation (search report)

- [XP] FR 2664819 A1 19920124 - EDAP INT [FR]
- [A] EP 0370841 A1 19900530 - EDAP INT [FR]
- [A] US 3735755 A 19730529 - EGGLETON R, et al
- [A] GB 820814 A 19590930 - UNIV ILLINOIS
- [AD] EP 0045265 A2 19820203 - DORY JACQUES

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

**EP 0551225 A1 19930714**; BR 9300021 A 19930713; CA 2086772 A1 19930708; CN 1076128 A 19930915; FR 2685872 A1 19930709; IL 104216 A0 19930513; JP H0678944 A 19940322; US 5354258 A 19941011

DOCDB simple family (application)

**EP 93400012 A 19930105**; BR 9300021 A 19930106; CA 2086772 A 19930106; CN 93100168 A 19930106; FR 9200051 A 19920107; IL 10421692 A 19921223; JP 113993 A 19930107; US 198893 A 19930107