



US 20160184601A1

(19) **United States**(12) **Patent Application Publication**
Gleich et al.(10) **Pub. No.: US 2016/0184601 A1**(43) **Pub. Date: Jun. 30, 2016**(54) **MAGNETIC STIMULATOR FOR
STIMULATING TISSUE WITH A MAGNETIC
FIELD**(30) **Foreign Application Priority Data**

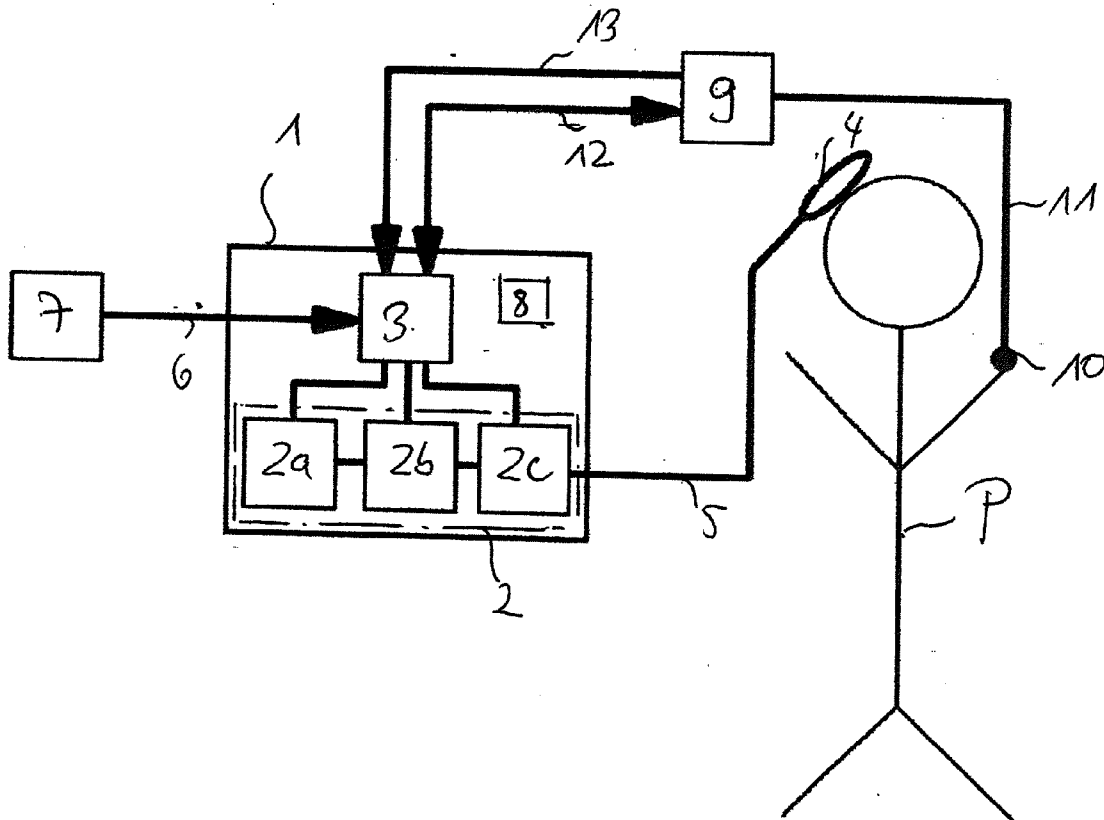
Jun. 21, 2013 (DE) 10 2013 211 859.7

(71) Applicant: **TECHNISCHE UNIVERSITÄT
MÜNCHEN, München (DE)****Publication Classification**(51) **Int. Cl.**
A61N 2/02 (2006.01)(52) **U.S. Cl.**
CPC **A61N 2/02** (2013.01)(72) Inventors: **Bernhard Gleich**, Odelzhausen, OT
Sittenbach (DE); **Nikolai Jung**,
Muenchen (DE); **Volker Mall**,
Muenchen (DE); **Norbert Göttinger**,
Olching (DE)(57) **ABSTRACT**

A magnetic stimulator for stimulation of a tissue by a magnetic field, having a pulse generator device which comprises a pulse capacitor which can be charged by a charging circuit in order to generate a pulse sequence consisting of pulses and having an adjustable repeat rate; and having a programmable control device which adjusts the pulse generator device to generate a complex pulse sequence, which comprises individually configurable pulses, wherein the generated complex pulse sequence is applied to a stimulation coil in order to generate the magnetic field.

(21) Appl. No.: **14/899,950**(22) PCT Filed: **Jun. 20, 2014**(86) PCT No.: **PCT/EP14/63030**

§ 371 (c)(1),

(2) Date: **Dec. 18, 2015**

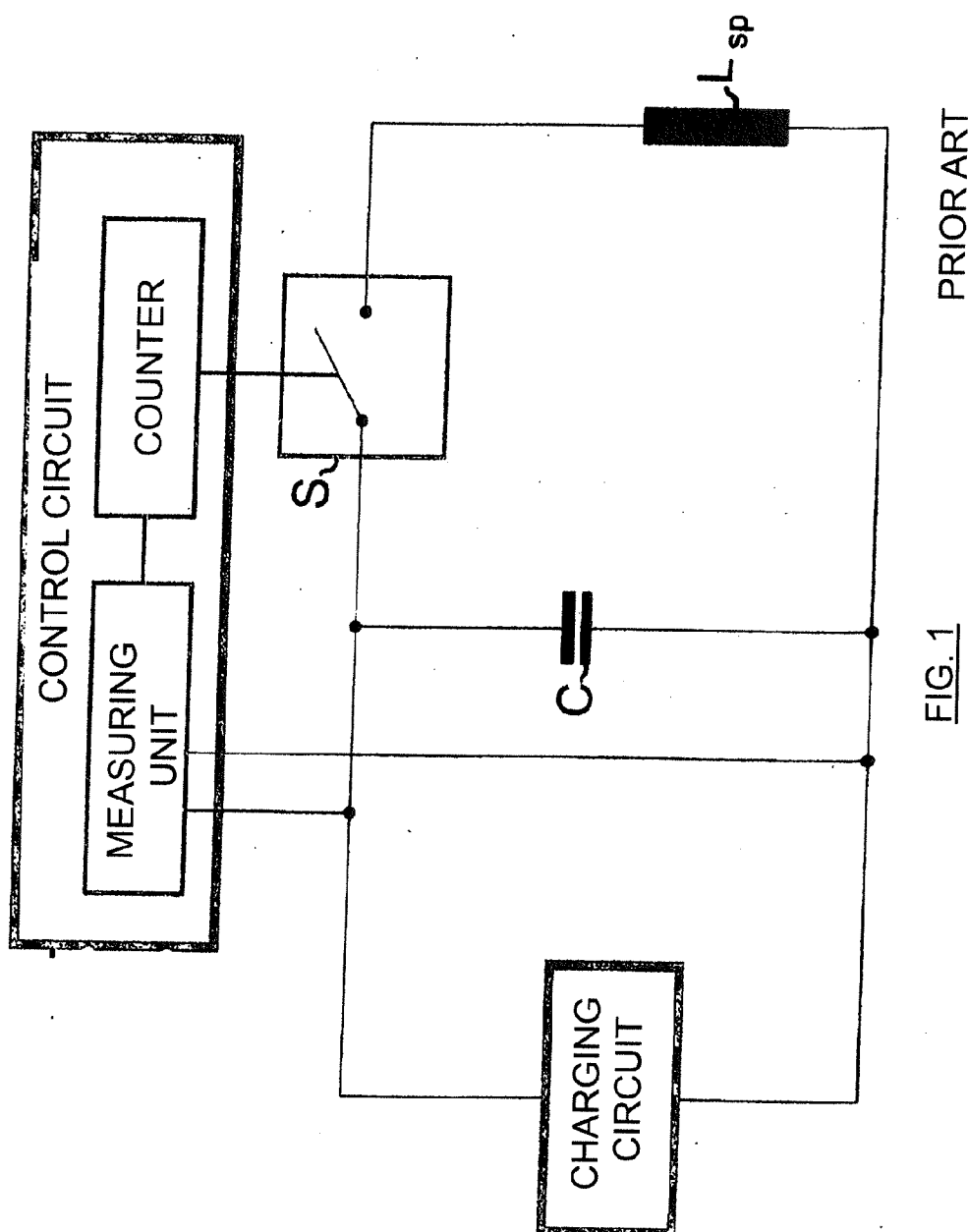


FIG. 1

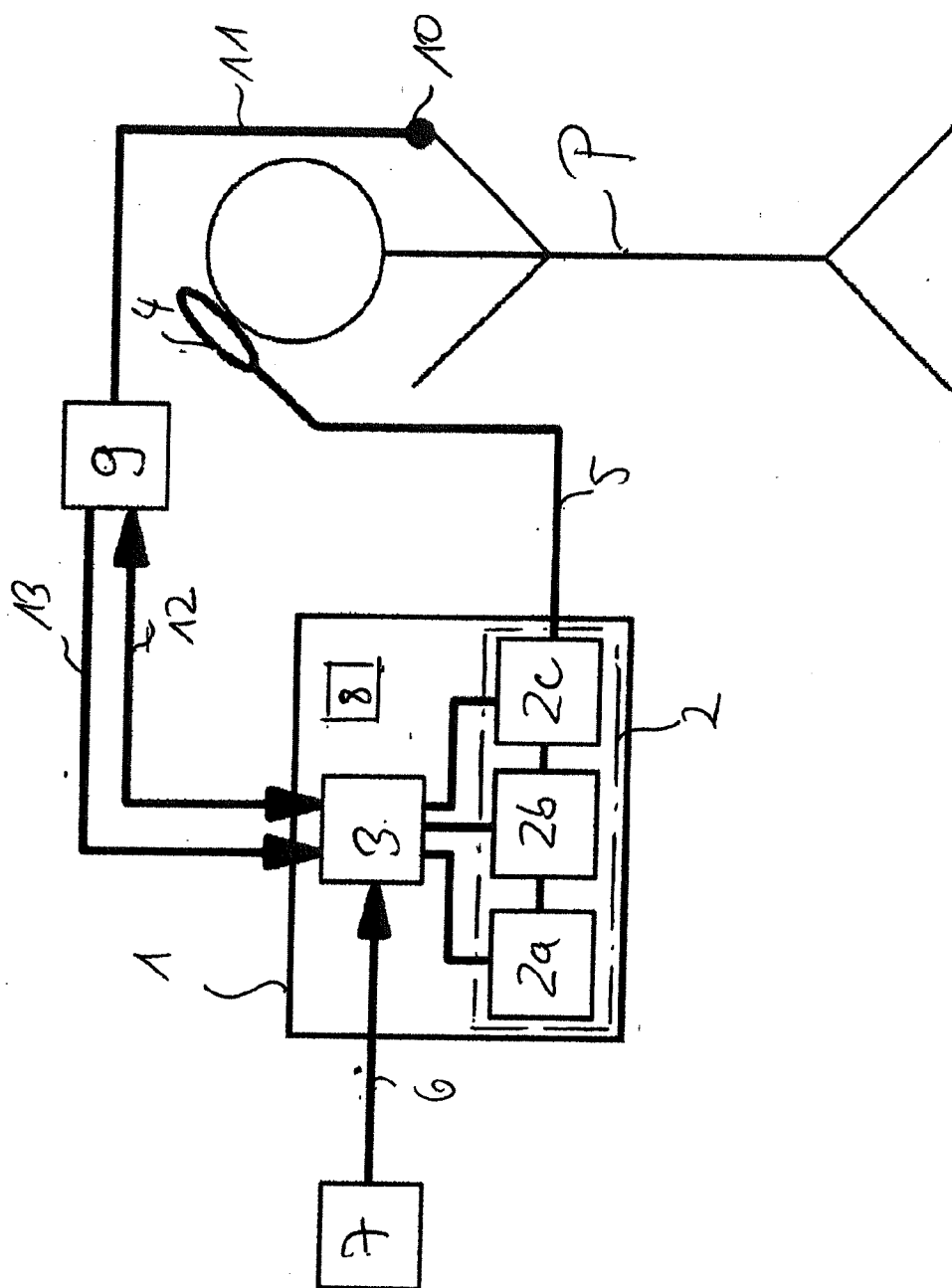


Fig. 2

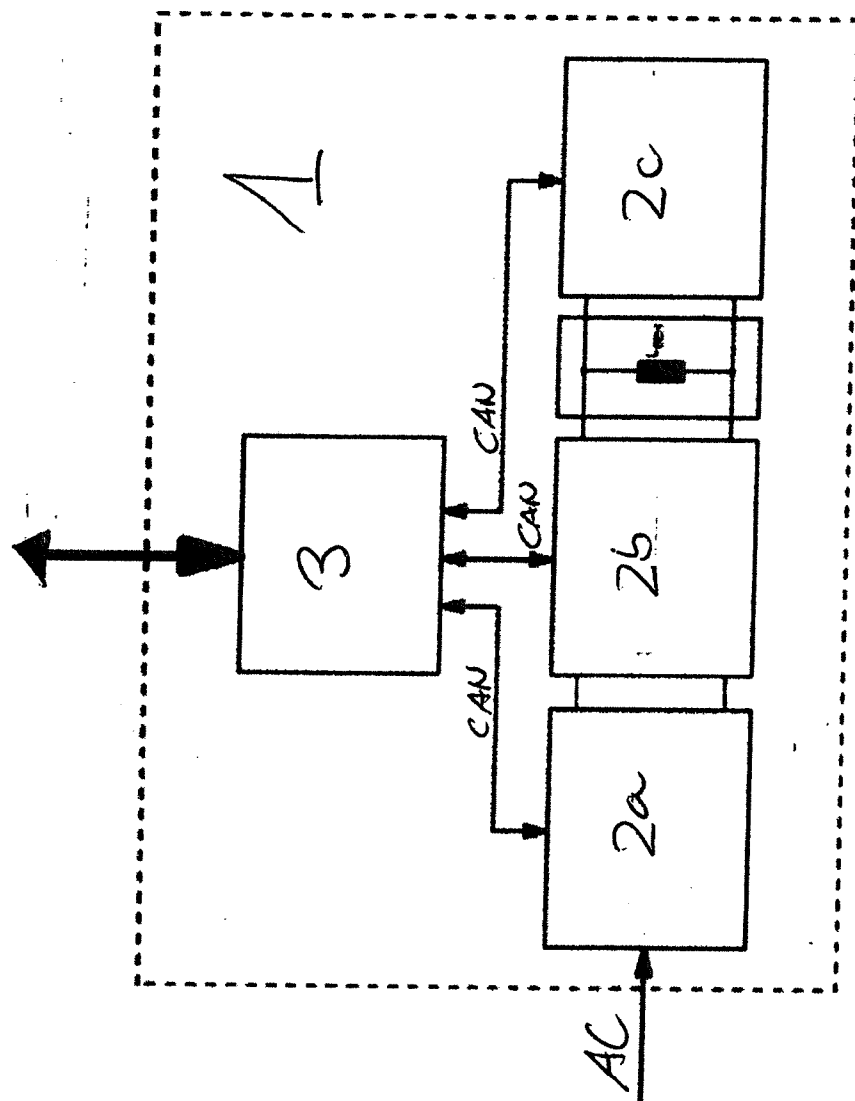


Fig. 3

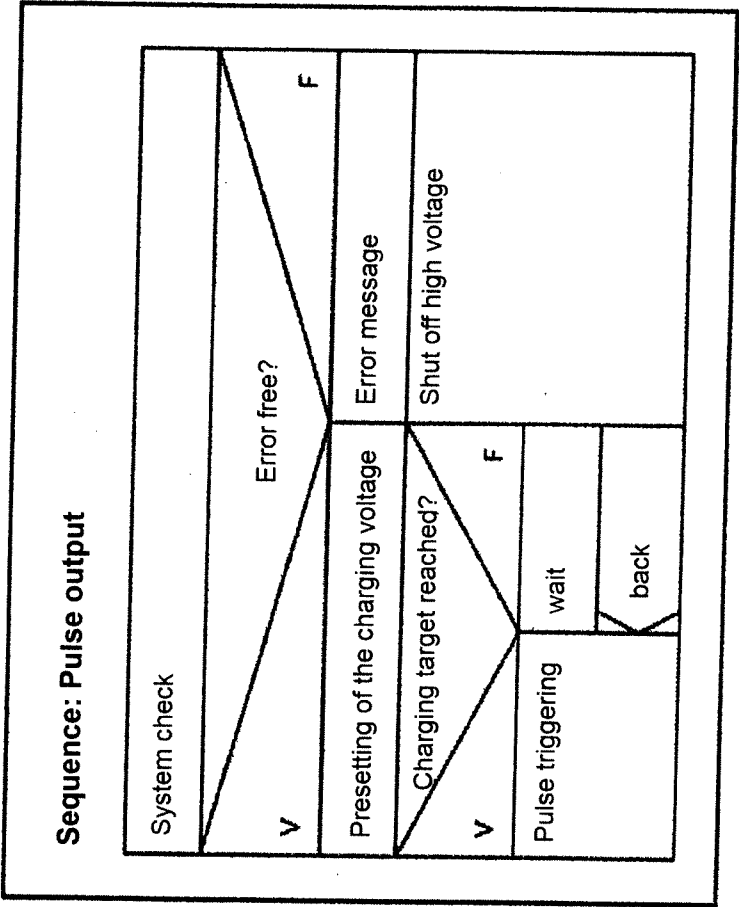


Fig. 4

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.