

Title (en)

Programmably variable voltage multiplier for implantable stimulator.

Title (de)

Spannungsvervielfacher mit Programmeinstellung für einen implantierbaren Stimulator.

Title (fr)

Multiplieur de tension réglable par programme pour stimulateur implantable.

Publication

EP 0000983 A1 19790307 (DE)

Application

EP 78300236 A 19780803

Priority

- GB 3491677 A 19770819
- US 91714078 A 19780619

Abstract (en)

A free running oscillator (2) clocks a counter (4), which produces stimulation control signals at a predetermined count. An output stage includes transistors, energized by the counter, to issue stimulating pulses having a voltage equal to that across a capacitor (28) in parallel with the output stage. The output capacitor is charged, between output pulses, by successive charge sharing cycles with at least one other capacitor (46), which is enabled by a stored program word, at a rate determined by the oscillator output cycles.

IPC 1-7

A61N 1/36

IPC 8 full level

A61N 1/372 (2006.01); **H02M 3/07** (2006.01)

CPC (source: EP)

A61N 1/37211 (2013.01); **H02M 3/07** (2013.01)

Citation (search report)

- US 4031899 A 19770628 - RENIRIE ALEXIS C M
- US 3707974 A 19730102 - RADDI W
- US 3726285 A 19730410 - BOWERS D, et al
- [D] US 3833005 A 19740903 - WINGROVE R
- US 3656487 A 19720418 - GOBELI DAVID H
- DE 2639554 A1 19770317 - PLESSEY HANDEL INVESTMENT AG

Cited by

US5876423A; EP0011934A3; FR2440198A1

Designated contracting state (EPC)

DE FR GB NL SE

DOCDB simple family (publication)

EP 0000983 A1 19790307; **EP 0000983 B1 19811118**; AU 3895678 A 19800221; CA 1114025 A 19811208; DE 2861332 D1 19820121

DOCDB simple family (application)

EP 78300236 A 19780803; AU 3895678 A 19780816; CA 309562 A 19780817; DE 2861332 T 19780803