

Title (en)

A FLYBACK POWER SUPPLY FOR A LOAD IN AN ELECTROLYTE

Title (de)

STROMVERSORGUNGSSPERRWANDLER FÜR EINE LADUNG IN EINEM ELEKTROLYT

Title (fr)

ALIMENTATION A TRES HAUTE TENSION DESTINEE A UNE CHARGE DANS UN ELECTROLYTE

Publication

**EP 1013154 A4 20010801 (EN)**

Application

**EP 97953542 A 19971223**

Priority

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Abstract (en)

[origin: WO9828970A2] A novel flyback power supply for controlling an electric fish screen is disclosed. The supply is a current mode device with constant power input while charging a network. PFC does not add more relaying elements. A pulse forming network yields more energy at higher voltages both in the drive to the discharge device and in its output. The fish screen introduces a magnetic field to warn the fish about the pulses. The fish avoid swimming too close to the magnet so the pulse frequency can be optimized for the species without fear that they may swim through the screen between the pulses. It also possible to direct them to a fish ladder on the way down stream. Another use is in down hole secondary oil recovery where the steam is released at the strata holding the oil. There is then little loss of heat between the heater and oil. The third use is in treating materials. This is a bulk and not just a surface effect. Materials can be purified, hardened, and their crystal structure changed by treatment in special electrolytes.

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IPC 8 full level

**H05C 1/04** (2006.01)

CPC (source: EP)

**H05C 1/04** (2013.01)

Citation (search report)

- [A] US 5327854 A 19940712 - SMITH DAVID V [US], et al
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- [A] WO 8303849 A1 19831110 - GOULD INC [US]
- See references of WO 9828970A2

Designated contracting state (EPC)

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