

Title (en)

Magnetic and electromagnetic treatment of fluids and gases and device with adaptable geometry therefor

Title (de)

Verfahren und Gerät mit adaptativer Geometrie zur magnetischen und elektromagnetischen Behandlung von Gasen und Flüssigkeiten

Title (fr)

Procédé et appareil à géométrie adaptative pour le traitement magnétique et électromagnétique des fluides

Publication

EP 1757797 A1 20070228 (FR)

Application

EP 05291788 A 20050826

Priority

EP 05291788 A 20050826

Abstract (en)

The apparatus has cylindrical permanent magnets (1) placed around/inside a conduit (2) and each inducing positive and negative magnetic fields towards center of the conduit. A cartridge (3) made of steel sheet and pellets (5) made of steel surround the magnets so as to neutralize the magnetic fields towards the exterior and to focus the fields towards the interior of the conduit. An electric vibrator (4) transmits its vibration to the magnets, and a band (6) made of ceramic foam is placed between the magnets and the conduit. An independent claim is also included for a method for increasing thermal power of a gaseous or liquid fuel or lime-scale removal of water conduit by using permanent magnets.

IPC 8 full level

F02M 27/04 (2006.01)

CPC (source: EP)

F02M 27/045 (2013.01)

Citation (search report)

- [X] FR 2836958 A1 20030912 - GALLEGOS JEAN THOMAS MICHEL [FR]
- [X] DE 20119582 U1 20020425 - GOETZ ALFRED [DE], et al
- [X] EP 0698732 A1 19960228 - TORRE BARREIRO JOSE LUIS DE [ES]
- [X] US 6386187 B1 20020514 - PHYKITT HOWARD P [US]
- [X] CA 2240016 A1 19991208 - OMNI TECH INC [CA]

Cited by

CN103145309A; WO2016034992A1; WO2009007761A1; WO2010000952A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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