

Title (en)
HEAT EXCHANGE DEVICE, USE AND HEAT EXCHANGE ARRANGEMENT

Title (de)
WÄRMETAUSCHERVORRICHTUNG, VERWENDUNG, WÄRMETAUSCHERANORDNUNG

Title (fr)
DISPOSITIF D'ÉCHANGE THERMIQUE, UTILISATION ET ENSEMBLE D'ÉCHANGE THERMIQUE

Publication
EP 2567169 A2 20130313 (DE)

Application
EP 11720378 A 20110503

Priority
• DE 102010019728 A 20100507
• EP 2011002200 W 20110503

Abstract (en)
[origin: WO2011138010A2] The invention relates to a heat exchange device for introducing into a waste water pipeline extending in the longitudinal direction L comprising: a heat exchanger wall which is made of a solid, heat-conducting material having a waste water side which is designed to come into contact with the waste water and an inner side which is designed to come into contact, at least in parts, with a heat exchange medium, and a heat exchange chamber wall having an inner side which is designed to come into contact, at least in parts, with the heat exchange medium, an outer side which is designed to face the waste water pipeline inner wall and is arranged to come into contact, directly or indirectly and at least in parts, with the waste water pipeline inner wall. Said heat exchanger wall forms the inner wall of a tubular body. The heat exchanger wall and the heat exchanger chamber wall are arranged at a distance from each other, at least in parts, such that a heat exchanger chamber is formed between the heat exchanger wall and the heat exchanger chamber wall. Said heat exchanger chamber can be connected to the outside by means of a feed line and a return line. The invention also relates to the use of a heat exchange arrangement. According to the invention, the heat exchange chamber rotates in a spiral manner in the longitudinal direction L, from the feed line to the return line.

IPC 8 full level
F28D 7/10 (2006.01); **E03F 3/04** (2006.01); **F24D 17/00** (2006.01); **F24F 12/00** (2006.01); **F25B 27/02** (2006.01)

CPC (source: EP)
E03F 3/04 (2013.01); **F24D 17/0005** (2013.01); **F28D 7/106** (2013.01); **F24D 2200/20** (2013.01); **F28D 21/0012** (2013.01); **Y02B 30/18** (2013.01); **Y02B 30/52** (2013.01); **Y02B 30/56** (2013.01)

Citation (search report)
See references of WO 2011138010A2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
DE 102010019728 A1 20111110; **DE 102010019728 B4 20130627**; EP 2567169 A2 20130313; WO 2011138010 A2 20111110;
WO 2011138010 A3 20120119

DOCDB simple family (application)
DE 102010019728 A 20100507; EP 11720378 A 20110503; EP 2011002200 W 20110503