Title (en)
 Plate Heat Exchanger

Title (de)
 Plattenwärmeaustauscher

Title (fr)
 Échangeur thermique à plaques

Publication
 EP 2233873 A1 20100929 (EN)

Application
 EP 10155028 A 20100301

Priority
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Abstract (en)
 The invention relates to a plate exchanger providing heat exchange between at least two fluids (A and B). Such plate heat exchanger consists
 of more than one exchanger plates wavy profile structure of which has been arranged in fishbone shape and the said curves provides a flowing
 turbulence during flowing of at least two fluids (A and B) through plate heat exchanger. The main purpose of the invention is to disclose a plate heat
 exchanger which increase the current heat transfer area between the channels where at least two different fluids (A and B) passes and increase the
 turbulence in the flowing channels where the cooling (heat taking) fluid passes, at least at the same rate provided by the existing art, with the feature
 of same size and at least of the same strength. The plate heat exchanger of the invention is characterized in that the curves forming the profile of the
 exchanger plates have at least two different heights along the longitudinal axis.

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Citation (applicant)
 EP 1630510 B1 20070103 - SWEP INT AB [SE]

Citation (search report)
 • [XI] WO 9300563 A1 19930107 - ALFA LAVAL THERMAL [SE]
 • [XP] WO 2009112031 A2 20090917 - DANFOSS AS [DK], et al
 • [A] JP H11173771 A 19990702 - DAIKIN IND LTD
 • [AD] EP 1630510 A1 20060301 - SWEP INT AB [SE]

Cited by
 JP2017015350A; CN103776291A; ITPD20130187A1; JP2016540181A; DE102021207707A1; WO2015001506A1; WO2017122428A1;
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