

Title (en)  
HEAT EXCHANGER MADE OF HOLLOW POLYMER FIBRES

Title (de)  
WÄRMEAUSTAUSCHER AUS POLYMER-HOHLFASERN

Title (fr)  
ÉCHANGEUR THERMIQUE EN FIBRES CREUSES EN POLYMÈRE

Publication  
**EP 2942596 A1 20151111 (DE)**

Application  
**EP 15000405 A 20150211**

Priority  
CZ 20140099 A 20140213

Abstract (en)  
[origin: CZ305152B6] In the present invention, there is disclosed a heat-exchange apparatus arranged between flowing media and formed by hollow polymer fibers, said heat-exchange apparatus heat transfer surface in the heat exchange zone is formed by at least one bundle (3) of hollow polymer fibers, which assume lengthwise, randomly and continuously different and also even opposite direction and are randomly arranged within a space, whereby at each end of the bundle, the fibers are fixed with each other.

Abstract (de)  
In einem aus Polymer-Hohlfasern bestehenden Wärmeaustauscher, der Wärmeaustausch zwischen zwei strömenden Medien ermittelt, ist die Wärmeaustauschfläche in seiner Wärmeaustauschzone durch mindestens ein Bündel (3) von gekrümmten Hohlfasern gebildet, die der Länge nach willkürlich und kontinuierlich verschiedene, sogar entgegengesetzte Richtungen annehmen und willkürlich in dem Raum angeordnet sind, wobei die Fasern an jedem Ende des Bündels (3) zusammen eingebettet sind.

IPC 8 full level  
**F28F 21/06** (2006.01); **F28D 1/047** (2006.01)

CPC (source: EP)  
**F28D 1/047** (2013.01); **F28F 21/062** (2013.01); **F28F 21/06** (2013.01); **F28F 2210/10** (2013.01); **F28F 2260/02** (2013.01)

Citation (applicant)

- US 4791054 A 19881213 - HAMADA EIICHI [JP], et al
- EP 1671695 A1 20060621 - FRESENIUS MEDICAL CARE DE GMBH [DE]
- EP 2708279 A1 20140319 - DRITTE PATENTPORTFOLIO BETEILI [DE]

Citation (search report)

- [XD] US 4791054 A 19881213 - HAMADA EIICHI [JP], et al
- [X] JP H0370991 A 19910326 - TOKYU KENSETSU KK
- [A] DE 3611621 A1 19861030 - AKZO GMBH [DE]
- [A] GB 1417282 A 19751210 - RHONE POULENC SA

Cited by  
FR3099235A1; WO2021014093A1

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2942596 A1 20151111**; CZ 201499 A3 20150520; CZ 305152 B6 20150520

DOCDB simple family (application)  
**EP 15000405 A 20150211**; CZ 20140099 A 20140213