

Title (en)
INSTALLATION FOR HEAT EXCHANGE AND MATERIAL TRANSFER BETWEEN TWO OR MORE FLOWING MEDIA.

Title (de)
VORRICHTUNG ZUM WÄRME- UND STOFFAUSTAUSCH ZWISCHEN ZWEI ODER MEHR STRÖMUNGSFÄHIGEN MEDIEN.

Title (fr)
INSTALLATION POUR L'ECHANGE DE CHALEUR ET LE TRANSFERT DE MATIERE ENTRE DEUX OU PLUSIEURS MILIEUX POUVANT S'ECOULER.

Publication
EP 0177519 A1 19860416 (DE)

Application
EP 85901371 A 19850326

Priority
• DE 3411675 A 19840327
• DE 8409717 U 19840327

Abstract (en)
[origin: DE3411675A1] In its basic embodiment, the installation is comprised of two or more pipes (30, 32) which are concentrically wound, the inner pipes traversing the outer pipes and extending beyond the latter by their ends. Said ends are connected to pipes forming supply and discharge conduits (34, 36). A plurality of concentrically wound pipe groups may be arranged next to each other. Such groups of pipes may be enlarged to form registers. It is possible to carry out numerous types of chemical reactions by making porous said pipes, filling the pipes with catalyst, etc.

Abstract (fr)
Dans son mode de réalisation de base, l'installation se compose de deux ou plusieurs tuyaux (30, 32) s'entourant concentriquement, les tuyaux intérieurs traversent les tuyaux extérieurs et dépassent ceux-ci par leurs extrémités. Les extrémités sont raccordées à des tuyaux formant des conduites d'alimentation et d'évacuation (34, 36). Plusieurs groupes de tuyaux s'entourant concentriquement peuvent être disposés les uns à côté des autres. De tels groupes de tuyaux peuvent être élargis pour former des registres. Il est possible de réaliser de nombreux types de réactions chimiques en rendant quelques tuyaux poreux, en remplissant les tuyaux de catalyseurs, etc.

IPC 1-7
F28D 7/10; B01D 53/22; B01D 11/04; B01D 1/06; B01D 3/04; B01D 19/00; B01D 46/24; B01J 47/00; B01D 53/36; B01D 53/00

IPC 8 full level
A61L 2/04 (2006.01); **A61L 2/07** (2006.01); **B01D 1/00** (2006.01); **B01D 1/06** (2006.01); **B01D 1/08** (2006.01); **B01D 1/22** (2006.01); **B01D 3/04** (2006.01); **B01D 11/04** (2006.01); **B01D 17/00** (2006.01); **B01D 19/00** (2006.01); **B01D 35/18** (2006.01); **B01D 46/24** (2006.01); **B01D 46/42** (2006.01); **B01D 53/00** (2006.01); **B01D 53/18** (2006.01); **B01D 53/22** (2006.01); **B01D 53/86** (2006.01); **B01D 63/00** (2006.01); **B01D 63/06** (2006.01); **B01J 8/02** (2006.01); **B01J 8/06** (2006.01); **B01J 19/00** (2006.01); **B01J 47/00** (2006.01); **C02F 11/04** (2006.01); **C11B 3/12** (2006.01); **C12M 1/00** (2006.01); **C12M 1/02** (2006.01); **C12N 1/00** (2006.01); **C25B 1/04** (2006.01); **C25B 9/00** (2006.01); **C25B 9/20** (2006.01); **F28D 5/02** (2006.01); **F28D 7/10** (2006.01); **F28D 9/00** (2006.01); **F28D 21/00** (2006.01); **F28F 9/02** (2006.01); **H01M 8/24** (2006.01)

CPC (source: EP US)
A61L 2/04 (2013.01 - EP); **A61L 2/07** (2013.01 - EP); **B01D 1/0017** (2013.01 - EP); **B01D 1/06** (2013.01 - EP); **B01D 1/065** (2013.01 - EP); **B01D 3/04** (2013.01 - EP); **B01D 11/04** (2013.01 - EP); **B01D 17/00** (2013.01 - EP); **B01D 19/00** (2013.01 - EP); **B01D 35/18** (2013.01 - EP); **B01D 46/2407** (2013.01 - EP); **B01D 46/4263** (2013.01 - EP); **B01D 53/005** (2013.01 - EP); **B01D 53/18** (2013.01 - EP); **B01D 53/22** (2013.01 - EP); **B01D 53/86** (2013.01 - EP); **B01D 61/18** (2013.01 - EP); **B01D 63/06** (2013.01 - EP US); **B01D 63/085** (2013.01 - EP); **B01J 8/067** (2013.01 - EP); **B01J 47/00** (2013.01 - EP); **C25B 9/73** (2021.01 - EP); **F28D 5/02** (2013.01 - EP); **F28D 7/10** (2013.01 - EP); **F28D 7/103** (2013.01 - EP); **F28D 7/106** (2013.01 - EP); **F28D 9/00** (2013.01 - EP); **F28D 21/0015** (2013.01 - EP); **F28F 9/0243** (2013.01 - EP); **H01M 8/2457** (2016.02 - US); **H01M 8/2459** (2016.02 - EP US); **H01M 8/2483** (2016.02 - EP US); **B01D 23/13/22** (2013.01 - EP); **B01D 23/13/221** (2022.08 - US); **Y02E 50/30** (2013.01 - EP); **Y02E 60/36** (2013.01 - EP); **Y02E 60/50** (2013.01 - EP); **Y02P 20/129** (2015.11 - EP)

Cited by
US6165187A; US5282484A; US5178625A

Designated contracting state (EPC)
AT BE CH DE FR GB LI LU NL SE

DOCDB simple family (publication)
WO 8504470 A2 19851010; **WO 8504470 A3 19851205**; AU 4213785 A 19851101; DE 3411675 A1 19851010; DE 8409717 U1 19861120; EP 0177519 A1 19860416; JP S61501523 A 19860724

DOCDB simple family (application)
DE 8500095 W 19850326; AU 4213785 A 19850326; DE 3411675 A 19840327; DE 8409717 U 19840327; EP 85901371 A 19850326; JP 50160585 A 19850326