

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
28 June 2007 (28.06.2007)

PCT

(10) International Publication Number
WO 2007/073281 A1

(51) International Patent Classification:

B01J 19/24 (2006.01) **F28D 9/00** (2006.01)
B01F 5/06 (2006.01)

(21) International Application Number:

PCT/SE2006/001428

(22) International Filing Date:

15 December 2006 (15.12.2006)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0502876-6 22 December 2005 (22.12.2005) SE

(71) Applicant (for all designated States except US): **ALFA LAVAL CORPORATE AB** [SE/SE]; Box 73, S-221 00 Lund (SE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **NORÉN, Tommy** [SE/SE]; Taktegelvägen 2, S-240 14 Veberöd (SE).

(74) Agent: **IVERSEN HASSELROT, Eva**; ALFA-LAVAL CORPORATE AB, Hans Stahles Väg, S-147 80 Tumba (SE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

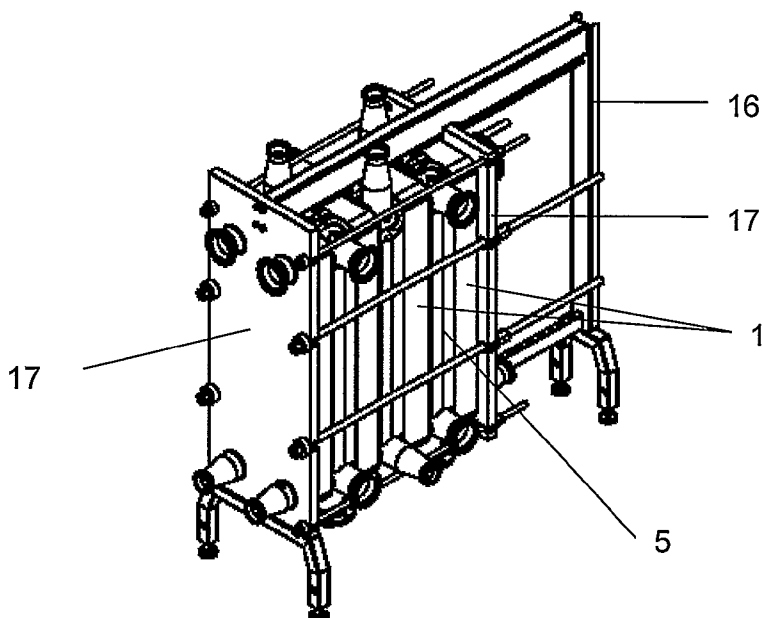
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A HEAT EXCHANGER MIXING SYSTEM



(57) Abstract: Present invention relates to a heat exchanger mixing system comprising at least one heat exchanger zone, at least one connection plate having one or more mixing units, at least four corners per connection plate, wherein each corner being either blind passage corner, a through-passage corner, a single passage corner, or a double passage corner, and the one or more mixing units are provided with static mixing elements. Present invention relates further to use of a heat exchanger mixing system, and a process for mixing fluids.

WO 2007/073281 A1