



(43) International Publication Date
19 September 2013 (19.09.2013)

(51) International Patent Classification:
F28F 3/12 (2006.01)

(21) International Application Number:
PCT/EP2013/055237

(22) International Filing Date:
14 March 2013 (14.03.2013)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12159461.8 14 March 2012 (14.03.2012) EP

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

(72) Inventor: **HÖGLUND, Kasper**; Hagsätervägen 9, S-144
63 Rönninge (SE).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY,
BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM,
DO, 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, LY, MA, MD,

ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI,
NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU,
RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))

(88) Date of publication of the international search report:
23 January 2014

(54) Title: CHANNEL PLATE HEAT TRANSFER SYSTEM

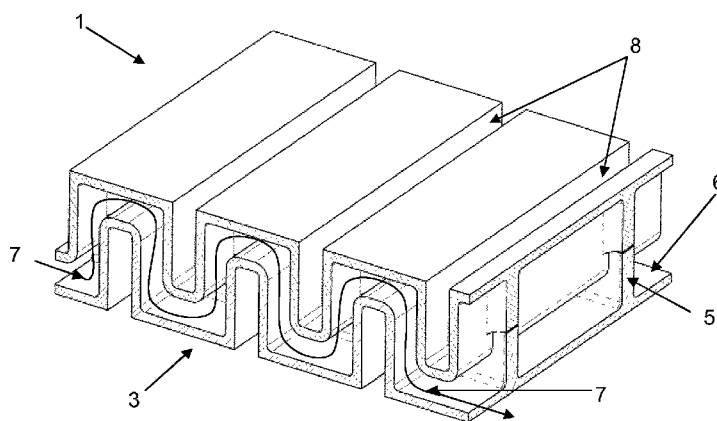


Figure 2

(57) Abstract: The present invention relates to a flow-plate, which is dividable in mid plane. The flow-plate comprises two parts, each part comprises a channel side (2) and a utility side (3), and the two parts of the flow plate are counter parts and complementing each other. When the flow-plate is connected the two parts form a channel (7) between the two counter parting channel sides. Channel (7) comprises curved obstacles (4), sidewalls (5) and channel floors (6), said curved obstacles (4) are lined up in parallel rows separated by sidewalls (5), the backside of the rows of curved obstacles (4) have deep machined grooves (8) making the obstacles hollow for heat transfer fluids on utility sides (3). The present invention relates also to a flow-plate section and a flow module.



WO 2013/135813 A3