



- (51) International Patent Classification:
F02C 7/12 (2006.01) *F01D 25/08* (2006.01)
F01D 5/18 (2006.01)
- (21) International Application Number:
PCT/US2013/033644
- (22) International Filing Date:
25 March 2013 (25.03.2013)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
13/439,277 4 April 2012 (04.04.2012) US
- (71) Applicant: UNITED TECHNOLOGIES CORPORATION [US/US]; One Financial Plaza, Hartford, Connecticut 06101 (US).
- (72) Inventors: BERGMAN, Russell, J.; 81 Kendrick Lane, Windsor, Connecticut 06095 (US). GREGG, Shawn, J.; 28 Chamberlain Road, Wethersfield, Connecticut 06109 (US). PAPPLE, Michael; 305-777 Rue De La Noue, Verdun, Québec H3E1V2 (CA). LUTJEN, Paul, M.; 129 Whitten Hills Road, Kennebunkport, Maine 04046 (US). CAPRARIO, Joseph, T.; 128 Skyview Drive, Cromwell, Connecticut 06416 (US). ENNACER, Mohammed; 4043 Des Pervenches, St. Hubert, Québec J3Y9B8 (CA).

DABBS, Thurman, Carlo; 149 Portland Avenue, #89, Dover, New Hampshire 03820 (US).

- (74) Agents: MCINTIRE, John, C. et al.; Kinney & Lange, P.A., 312 South Third Street, Minneapolis, Minnesota 55415 (US).

(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).

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(54) Title: COOLING SYSTEM FOR A TURBINE VANE

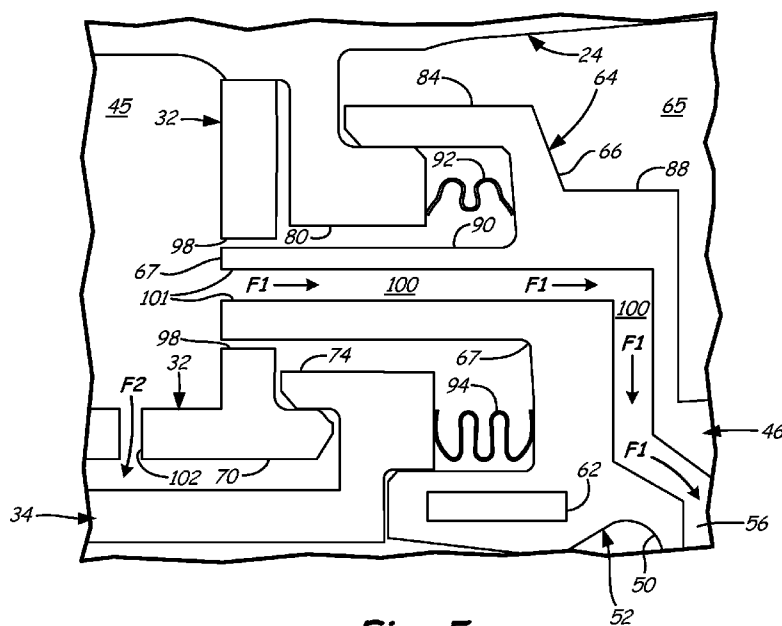


Fig. 5

(57) Abstract: A cooling system for a gas turbine engine includes a first plenum, a first cooling flow passageway, and a second cooling flow passageway. The first cooling flow passageway is in fluid communication with the first plenum and with a first airfoil cooling channel within an airfoil of the stator vane. The first airfoil cooling channel is for cooling a leading edge of the airfoil. The second cooling flow passageway is in fluid communication with the first plenum and with a platform cooling channel within an outer diameter platform of the stator vane. The first cooling flow passageway and the second cooling flow passageway are disposed within a mounting hook. The first cooling flow passageway and the second cooling flow passageway are not in fluid communication with each other.

WO 2013/151813 A1



Published:

— *with international search report (Art. 21(3))*