20030607 79

03 OCT 2003

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
17 October 2002 (17.10.2002)

PCT

(10) International Publication Number
WO 02/082407 A1

(51) International Patent Classification[7]: G08G 5/00, 5/06

(21) International Application Number: PCT/GB02/01600

(22) International Filing Date: 5 April 2002 (05.04.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/282,439 9 April 2001 (09.04.2001) US
10/012,983 6 November 2001 (06.11.2001) US

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(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:
— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations*

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.



162162



ACTION

WO 02/082407 A1

(54) Title: SCHEDULE BASED MANAGEMENT SYSTEM FOR OPTIMIZING AIRCRAFT ARRIVALS AT AIRPORTS

(57) Abstract: A system is provided for managing the inbound flow of aircraft to an airfield by ensuring that aircraft are sequenced before departure into an arrival stream. Sequencing uses operational data obtained from airlines and then provides a methodology for sharing this data with the air traffic control (ATC) agency. The outcome is a daily arrival schedule providig a predetermined operational arrival time for each aircraft movement. The operational data used by the system relates to airline punctuality, taxi times at departure airfields and actual flight times predicted on a flight-by-flight basis by airline flight planning systems. This information is combined to effect a predictive arrival time at a desired navigational fix. When used in conjunction with an optimised sequencing process for the final arrival time, the system then creates a Tactical Arrival Time (TAT) for an individual flight. Airlines share proportionally in a measure of departures from requested TATs, such measures being optionally weighted.