

Title (en)
SATELLITE BASED AIRCRAFT TRAFFIC CONTROL SYSTEM

Title (de)
LUFTVERKEHRSREGLUNGSSYSTEM MIT HILFE VON SATELLITEN

Title (fr)
SYSTEME DE CONTROLE DU TRAFIC AERIEN PAR SATELLITE

Publication
EP 0774148 A1 19970521 (EN)

Application
EP 95930091 A 19950714

Priority
• US 9508946 W 19950714
• US 27554794 A 19940715

Abstract (en)
[origin: WO9602905A1] A satellite based air traffic control (ATC) system includes an aircraft unit (18) on an aircraft and an ATC facility (48). The aircraft unit (18) includes an AARTS processor (28), GPS receivers (20, 22), a comparator (24) for comparing the GPS data, a two-way radio (44) and a transmitter (32) and receiver (33) for communicating information over a data link with the ATC facility (48). The ATC facility (18) includes an ATC computer (66), a two-way radio (52), a display (70) for displaying aircraft and a transmitter (61) and receiver (60) for communicating information and data over the data link. The aircraft transmits aircraft identification information, GPS data, aircraft status information and a transmit detect code to the ATC facility (48) to allow the ATC to track the aircraft and identify the aircraft communicating on two-way radio (52). The traffic control system and a flight control system utilizing GPS may be used for aircraft in the air and on ground and may be used for ships, boats, automobiles, trains or railroads.

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G08G 5/04

IPC 8 full level
G01S 5/00 (2006.01); **G01S 5/14** (2006.01); **G01S 19/15** (2010.01); **G01S 19/40** (2010.01); **G01S 19/41** (2010.01); **G01S 19/49** (2010.01); **G08G 1/123** (2006.01); **G08G 5/00** (2006.01); **G08G 9/00** (2006.01)

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