

Title (en)
AVIONIC SYSTEM INTENDED FOR USE IN AIRCRAFTS AND INVOLVING USE OF AN ON-BOARD RADAR EQUIPMENT

Title (de)
AVIONIK-SYSTEM FÜR LUFTFAHRZEUGE UNTER VERWENDUNG EINER MITGEFÜHRTEN RADAREINRICHTUNG

Title (fr)
SYSTEME AVIONIQUE DESTINE AUX AERONEFS ET UTILISANT UN EQUIPEMENT RADAR EMBARQUE

Publication
EP 0998682 A1 20000510 (DE)

Application
EP 98941385 A 19980721

Priority

- DE 19731169 A 19970721
- DE 19731262 A 19970721
- DE 19731263 A 19970721
- EP 9804537 W 19980721

Abstract (en)
[origin: WO9905541A1] The invention pertains to an on-board radar equipment as part of the avionic system in an aircraft, said equipment providing a two-dimensional representation of the radar data from an area located upstream relative to the flight direction. The inventive radar equipment is an upstream sighting radar which gives of the radar data a high resolution and map-consistent representation from above in accordance with its basic operating mode resting upon the SAR(synthetic aperture radar)-based processing principle or an equivalent principle. A digital image processor enables a purely geometrical conversion of the map-consistent representation from above provided by said radar equipment into a corresponding image with a centered perspective projection and with a quasi-pilot vision. The invention is used when aircrafts and helicopters fly under bad visibility conditions or with no visibility at all.

IPC 1-7
G01S 7/20; **G01S 13/20**

IPC 8 full level
G01S 7/20 (2006.01); **G01S 7/22** (2006.01); **G01S 7/24** (2006.01); **G01S 13/90** (2006.01); **G01S 13/89** (2006.01); **G01S 13/91** (2006.01); **G01S 13/93** (2006.01); **G01S 13/933** (2020.01); **G01S 13/95** (2006.01)

CPC (source: EP US)
G01S 7/20 (2013.01 - EP); **G01S 7/22** (2013.01 - EP US); **G01S 7/24** (2013.01 - EP); **G01S 13/9023** (2013.01 - EP US); **G01S 13/9043** (2019.04 - EP); **G01S 13/89** (2013.01 - EP US); **G01S 13/913** (2013.01 - EP); **G01S 13/933** (2020.01 - EP); **G01S 13/953** (2013.01 - EP); **Y02A 90/10** (2017.12 - EP)

Citation (search report)
See references of WO 9905541A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
WO 9905541 A1 19990204; CA 2297177 A1 19990204; EP 0998682 A1 20000510

DOCDB simple family (application)
EP 9804537 W 19980721; CA 2297177 A 19980721; EP 98941385 A 19980721