

Title (en)
WATCHBAND ANTENNA

Title (de)
ANTENNE FÜR ARMBANDUHR

Title (fr)
ANTENNE POUR MONTRE-BRACELET

Publication
EP 1407513 B1 20041208 (FR)

Application
EP 02764633 A 20020704

Priority
• EP 02764633 A 20020704
• EP 0207494 W 20020704
• EP 01202593 A 20010705

Abstract (en)
[origin: EP1274150A1] Portable electronic instrument of the watch and bracelet type having in a casing (2) a metallic housing (4) with base and lateral walls and sealed window opening for a glass (3). The antenna (20) rests on the exterior face (7a) of metallized plastic glass support (7). A circular fitting ring (8) is fitted between the support and the base. An electronic module (6) and a display unit (5) are enclosed between the support and the fitting, both of which form a removable sub- assembly. The support is electrically connected to the metallic housing. A protective cover (9) made from a dielectric material fits over the support and covers the antenna. The fitting is fixed in the base (4a) by fixings. The instrument includes:- (a) a housing enclosing an electronic module and display unit; (b) a glass fitted on the housing; (c) an electrical energy supply source (10) located in the housing feeding the module and display, and; (d) a radio frequency receiving and/or transmission antenna electrically connected to the module.

IPC 1-7
H01Q 9/04; **H01Q 1/27**; **H01Q 1/38**; **H01Q 1/52**; **G04G 1/00**

IPC 8 full level
G01S 1/04 (2006.01); **G04G 21/04** (2013.01); **G04G 99/00** (2010.01); **H01Q 1/22** (2006.01); **H01Q 1/24** (2006.01); **H01Q 1/27** (2006.01); **H01Q 1/38** (2006.01); **H01Q 1/44** (2006.01); **H01Q 1/50** (2006.01); **H01Q 1/52** (2006.01); **H01Q 9/04** (2006.01); **H01Q 13/08** (2006.01)

CPC (source: EP US)
G04G 21/04 (2013.01 - EP US); **G04R 60/08** (2013.01 - EP US); **H01Q 1/273** (2013.01 - EP US); **H01Q 9/0407** (2013.01 - EP US)

Designated contracting state (EPC)
CH DE FR LI

DOCDB simple family (publication)
EP 1274150 A1 20030108; CN 100373696 C 20080305; CN 1331272 C 20070808; CN 1524317 A 20040825; CN 1524320 A 20040825; DE 60202213 D1 20050113; DE 60202213 T2 20051208; DE 60230515 D1 20090205; EP 1407510 A1 20040414; EP 1407510 B1 20081224; EP 1407513 A1 20040414; EP 1407513 B1 20041208; JP 2004534239 A 20041111; JP 2004534467 A 20041111; JP 4044898 B2 20080206; US 2004145975 A1 20040729; US 2004155818 A1 20040812; US 2007041275 A1 20070222; US 6914564 B2 20050705; WO 03005484 A1 20030116; WO 03005486 A1 20030116

DOCDB simple family (application)
EP 01202593 A 20010705; CN 02813486 A 20020704; CN 02813497 A 20020617; DE 60202213 T 20020704; DE 60230515 T 20020617; EP 0206669 W 20020617; EP 0207494 W 20020704; EP 02743215 A 20020617; EP 02764633 A 20020704; JP 2003511340 A 20020617; JP 2003511342 A 20020704; US 47865903 A 20031125; US 57119802 A 20020617; US 75408404 A 20040105