

Title (en)  
Autonomous radio-controlled clock

Title (de)  
Autonome Funkuhr

Title (fr)  
Horloge radio-pilotée autonome

Publication  
**EP 0439724 B2 19970416 (DE)**

Application  
**EP 90123144 A 19901204**

Priority  
DE 9000899 U 19900127

Abstract (en)  
[origin: US5144599A] An autonomous radio timepiece comprises a casing and a bracelet attached thereto. The casing includes an operating circuit, while the bracelet carries a flexible antenna. The antenna can be removed from the bracelet in the event that the bracelet is worn and must be discarded. The antenna carries a plug-in type connector at one end which is adapted to make a tight sealing connection with the casing, and is also adapted to electrically connect the antenna with the circuit of the casing. The circuit within the casing includes a receiver which is fixedly tuned as a function of the antenna inductivity of a foil core to the time message transmitter. Also provided is a variable automatic supplemental tuner to compensate for bending of the bracelet while the receiver is actuated. The antenna comprises a foil of an insulting material on which an antenna conductor is printed, along with two shielding conductors extending parallel to the antenna conductor.

IPC 1-7  
**G04G 1/00**; **G04B 47/02**; **H01Q 1/27**

IPC 8 full level  
**G04B 47/02** (2006.01); **G04G 1/00** (2006.01); **G04G 1/06** (2006.01); **G04G 21/04** (2013.01); **G04G 99/00** (2010.01); **H01Q 1/27** (2006.01)

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

Cited by  
EP0704927A1; DE19926271C2; EP0814390A3; EP1067442B2

Designated contracting state (EPC)  
CH DE ES FR GB IT LI

DOCDB simple family (publication)  
**DE 9000899 U1 19910523**; DE 59004924 D1 19940414; EP 0439724 A2 19910807; EP 0439724 A3 19920122; EP 0439724 B1 19940309; EP 0439724 B2 19970416; ES 2051441 T3 19940616; HK 118294 A 19941104; US 5144599 A 19920901

DOCDB simple family (application)  
**DE 9000899 U 19900127**; DE 59004924 T 19901204; EP 90123144 A 19901204; ES 90123144 T 19901204; HK 118294 A 19941027; US 63569290 A 19901228