

Title (en)  
Time-piece provided with an antenna

Title (de)  
Mit einer Antenne versehene Uhr

Title (fr)  
Pièce d'horlogerie comportant une antenne

Publication  
**EP 0339482 B2 19981111 (FR)**

Application  
**EP 89107096 A 19890420**

Priority  
CH 156388 A 19880426

Abstract (en)  
[origin: US4884252A] A timepiece (4), adapted to be worn on a part of the body, for example on the wrist, is provided with an antenna capable of capturing an electromagnetic field bearing radio-diffused messages. Measurements have shown that when close to the wrist the radial electric component (Er) and the azimuthal or tangential magnetic component (H phi ) were predominant. Consequently, in order to capture the first, a capacitive antenna the electrodes of which are parallel to the back cover (2) of the timepiece will be provided and, to capture the second, an inductive antenna including a winding the axis of which is parallel to the longitudinal direction of the bracelet (3) will be provided.

IPC 1-7  
**G04B 47/02**; **H01Q 1/44**

IPC 8 full level  
**H04B 1/08** (2006.01); **G04B 47/02** (2006.01); **G04G 21/04** (2013.01); **H01Q 1/44** (2006.01)

CPC (source: EP KR US)  
**G04B 47/025** (2013.01 - EP US); **G04G 99/00** (2013.01 - KR); **H01Q 1/44** (2013.01 - EP US)

Cited by  
US5135694A; CN101938541A; US5923265A; EP2747198A1; CN105182731A; EP0805507A1; FR2748360A1; AU775802B2; AT400997B; EP0741433A1; EP0603721A1; US5367502A; CH686107GA3; EP0569868A1; US5268880A; CH682969GA3; EP0460526A1; EP1113346A1; US6816600B1; US9705184B2; WO0038495A3; WO2014095298A1; TWI631765B

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**EP 89107096 A 19890420**; AR 31376389 A 19890425; AU 3331589 A 19890424; BR 8901942 A 19890425; CA 596427 A 19890412; CH 156388 A 19880426; CN 89102914 A 19890426; DE 68900128 T 19890420; DK 176289 A 19890412; ES 89107096 T 19890420; FI 891983 A 19890426; GR 910401409 T 19910924; GR 990400458 T 19990211; HK 74495 A 19950511; IE 111189 A 19890407; IL 9005389 A 19890424; JP 10477889 A 19890426; KR 890005589 A 19890425; NO 891664 A 19890421; US 33819289 A 19890414; ZA 892760 A 19890414