

Title (en)
RADIO-CONTROLLED WATCH

Publication
EP 0180155 B1 19921223 (DE)

Application
EP 85113560 A 19851025

Priority
DE 3439638 A 19841030

Abstract (en)
[origin: US4650344A] A radio controlled timepiece includes a radio receiver for demodulating a transmitted signal on which time and date information has been encoded. A pulse sequence is derived from the transmitted radio signal which is used to drive the stepping motor which advances the hands of a standard display timepiece. If unfavorable reception conditions exist, then the stepping motor will not be driven smoothly and the poor reception will be readily apparent from the irregular movement of the clock hand. A switch is provided to allow the stepping motor to be normally driven by a pulse sequence output of a standard time keeping circuit. A comparator compares the time displayed on the face of the timepiece with the time information encoded on the radio signal and, if the displayed time deviates from the actual time, the frequency of the pulse sequence from the time keeping circuit is adjusted to correct the displayed time.

IPC 1-7
G04C 9/00; G04C 11/02

IPC 8 full level
G04C 3/00 (2006.01); **G04C 3/14** (2006.01); **G04C 9/00** (2006.01); **G04C 9/02** (2006.01); **G04C 11/02** (2006.01); **G04R 20/00** (2013.01); **H04B 1/16** (2006.01)

CPC (source: EP US)
G04R 20/00 (2013.01 - EP US); **G04R 20/10** (2013.01 - EP US)

Citation (examination)
• US 4525685 A 19850625 - HESSELBERTH ROBERT J [US], et al
• US 4565454 A 19860121 - WALTERS RICHARD J [AU]
• US 4316274 A 19820216 - USHIKOSHI KENICHI
• US 4650344 A 19870317 - ALLGAIER JUERGEN [DE], et al
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• 4. Darmstadter Kolloquium (1983), S. 104-109, H. Effenberger, "Mikroprozessorgesteuerte Funkuhren mit Analoganzeige".
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• Funkschau 1977, Heft 2, S. 94-97
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• Funkschau 1979, Heft 14, S. 839-842
• Funkschau 1979, Heft 15, S. 891-895
• Funkschau 1979, Heft 16, S. 959-962
• Funkschau 1979, Heft 17, S. 1027-1029
• Funkschau 1979, Heft 18, S. 1081-1084

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EP0627822A1; US5260916A; EP0751444A1; EP1316861A3; DE19538913A1; DE19538913C2; US6525995B1; EP0990196B1; EP0394654B1; EP0355567B1; EP0590337B2

Designated contracting state (EPC)
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