

Title (en)
Electronic alarm clock.

Title (de)
Elektrischer Wecker.

Title (fr)
Réveil électronique.

Publication
EP 0339316 A2 19891102 (DE)

Application
EP 89105951 A 19890405

Priority
DE 3814353 A 19880428

Abstract (en)
Electric alarm clocks such as, e.g. radio alarm clocks, awake the sleeper with the volume last set. However, because on the one hand the volume must be high enough in order to prevent the risk of oversleeping while, on the other hand, sudden awakening owing to noises which are too loud damages the human nervous system and psyche, it is difficult to set the optimum volume. Because, furthermore, the sensitivity of hearing and the depth of sleep fluctuate from day to day, it is never known in advance precisely what volume is optimum for waking. In order to achieve reliable and yet soft awakening, the volume rises from a presettable initial value to a presettable final value. It is particularly advantageous if it is also possible to set the time in which the volume rises from the initial value to the final value. It is determined in this way whether waking is more or less soft. Radio alarm clocks with and without cassette component, hi-fi installations with tuner, cassette component and CD player.

Abstract (de)
Elektrische Wecker, wie z.B. Radiowecker, wobei, um ein sicheres und trotzdem sanftes Wecken zu erzielen, die Lautstärke von einem vorgebbaren Anfangswert auf einen vorgebbaren Endwert ansteigt. Besonders vorteilhaft ist es, wenn auch die Zeit, in welcher die Lautstärke vom Anfangswert auf den Endwert ansteigt, einstellbar ist. Damit wird festgelegt, ob mehr oder weniger sanft geweckt wird. Der Radiowecker kann mit und ohne Kassettenteil, HiFi-Anlagen mit Tuner, Kassettenteil und CD-Spieler ausgeführt sein.

IPC 1-7
G04G 13/02

IPC 8 full level
G04C 21/02 (2006.01); **G04G 13/02** (2006.01)

CPC (source: EP KR)
G04C 21/14 (2013.01 - KR); **G04G 13/023** (2013.01 - EP)

Cited by
US6920089B1; CN100351897C; US5886955A; EP1504444A4; GB2422448A; GB2422448B; US7299182B2; EP0624001B1

Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0339316 A2 19891102; EP 0339316 A3 19910327; EP 0339316 B1 19940112; AT E100221 T1 19940115; DE 3814353 A1 19891109; DE 58906663 D1 19940224; ES 2049271 T3 19940416; HK 107995 A 19950714; JP H0216489 A 19900119; KR 890016440 A 19891129; SG 30572 G 19950918

DOCDB simple family (application)
EP 89105951 A 19890405; AT 89105951 T 19890405; DE 3814353 A 19880428; DE 58906663 T 19890405; ES 89105951 T 19890405; HK 107995 A 19950706; JP 10611989 A 19890427; KR 890005617 A 19890428; SG 1995904504 A 19890405