

Title (en)  
OSCILLATOR WITH A LOW FREQUENCY QUARTZ RESONATOR

Publication  
**EP 0015873 B2 19860611 (DE)**

Application  
**EP 80810066 A 19800222**

Priority  
CH 226779 A 19790309

Abstract (en)  
[origin: US4344046A] A signal generator includes a high frequency oscillator such as a quartz crystal oscillator at a frequency of 4.19 MHz, a low frequency quartz oscillator with a frequency of 32 kHz, a beat frequency generator for producing a correction signal which is transmitted to a programmable frequency divider, and an electronic switch for periodic switching of the high frequency quartz oscillator. By periodically switching-on the high frequency quartz oscillator, comparing its frequency curve with that of the low frequency quartz oscillator and and appropriately adjusting the programmable frequency divider, the advantages of long term stability, temperature of behavior and aging of a high frequency oscillator are combined with the low current consumption characteristics associated with the low frequency quartz oscillator, whereby the life of a battery powering the signal generator can be substantially extended.

IPC 1-7  
**G04G 3/02**; H03L 7/00

IPC 8 full level  
**G04G 3/00** (2006.01); **G04G 3/02** (2006.01); **H03B 5/32** (2006.01)

CPC (source: EP US)  
**G04G 3/022** (2013.01 - EP US); **G04G 3/027** (2013.01 - EP US)

Cited by  
EP0052884A1; EP0806713A1; US5973617A; EP0032359B1

Designated contracting state (EPC)  
DE FR GB NL

DOCDB simple family (publication)  
**EP 0015873 A1 19800917**; **EP 0015873 B1 19830413**; **EP 0015873 B2 19860611**; CH 620087 B; CH 620087G A3 19801114;  
DE 3062665 D1 19830519; JP S55124311 A 19800925; JP S6347002 B2 19880920; US 4344046 A 19820810

DOCDB simple family (application)  
**EP 80810066 A 19800222**; CH 226779 A 19790309; DE 3062665 T 19800222; JP 2906480 A 19800307; US 12615480 A 19800229