

Title (en)  
SKELETON WATCH COMPRISING A MOVEMENT WHICH IS INDEPENDENT FROM THE MIDDLE

Title (de)  
SKELETT-ARMBANDUHR, DIE EIN VOM MITTELTEIL UNABHÄNGIGES UHRWERK UMFASST

Title (fr)  
MONTRE SQUELETTE COMPRENANT UN MOUVEMENT INDÉPENDANT DE LA CARRURE

Publication  
**EP 3435177 B1 20200226 (FR)**

Application  
**EP 17182850 A 20170724**

Priority  
EP 17182850 A 20170724

Abstract (en)  
[origin: CN109298619A] The hollowed-out watch (1) comprises a watch shell middle part (2); a watch movement (12). The watch movement comprises a watch frame (13), a time display device (27), a decelerating mechanism (55) engaged with the time display device (27). The motor (56) comprises an electromagnet (57), a stator (58), a rotor (59) having a pinion (60) engaged with the decelerating mechanism (55). An electronic circuit (61) comprises a piezoelectric quartz (62); a control circuit (63) which is connected to the quartz (62) and the stator (58) by means of an electrical conductor (64); an additional plate (65) bearing the electronic circuit (61), wherein the additional plate (65) is different from a rear cover (9) and is fixed to the frame (13).

IPC 8 full level  
**G04B 45/02** (2006.01); **G04C 3/00** (2006.01); **G04G 17/04** (2006.01)

CPC (source: CN EP KR US)  
**G04B 13/00** (2013.01 - CN); **G04B 13/02** (2013.01 - KR); **G04B 19/04** (2013.01 - KR US); **G04B 37/04** (2013.01 - KR);  
**G04B 45/02** (2013.01 - EP US); **G04C 3/008** (2013.01 - EP KR US); **G04C 3/10** (2013.01 - CN); **G04C 3/101** (2013.01 - CN);  
**G04C 3/108** (2013.01 - CN); **G04C 3/12** (2013.01 - EP US); **G04C 3/14** (2013.01 - EP KR US); **G04G 17/04** (2013.01 - EP US)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 3435177 A1 20190130; EP 3435177 B1 20200226**; CN 109298619 A 20190201; CN 109298619 B 20210803; JP 2019023626 A 20190214;  
JP 6556914 B2 20190807; KR 102119945 B1 20200608; KR 20190011190 A 20190201; US 10859979 B2 20201208;  
US 2019025765 A1 20190124

DOCDB simple family (application)  
**EP 17182850 A 20170724**; CN 201810811376 A 20180723; JP 2018129681 A 20180709; KR 20180079269 A 20180709;  
US 201816012799 A 20180620