

Title (en)
PIÈCE D'HORLOGERIE AVEC AFFICHAGE NUMÉRIQUE DU TEMPS

Title (de)
UHR MIT DIGITALER ZEITANZEIGE

Title (fr)
TIMEPIECE WITH DIGITAL TIME DISPLAY

Publication
EP 3382469 B1 20190925 (DE)

Application
EP 18162146 A 20180315

Priority
CH 4252017 A 20170330

Abstract (en)
[origin: US2018284697A1] A wristwatch with a gear train for rotatably advancing in cyclic steps a minute-units disk, a switching device for advancing a minute-tens disk and an hour ring which is advanced during one revolution of the minute-tens disk. The movement comprises a first and a second transmission chain connected to a release mechanism; the first transmission chain controls the second such that the second transmission chain transmits every minute a rotational movement force to a minute-units wheel. The release mechanism comprises a control disk, two release levers, each having a first and a second lever arm, and a release wheel. After each minute, a first lever arm falls from the control disk edge into a recess of the control disk and a second lever arm releases the release wheel, such that the second transmission chain rotates freely, allowing the minute-units disk to rotate one digit further.

IPC 8 full level
G04B 13/00 (2006.01); **G04B 19/20** (2006.01)

CPC (source: CH CN EP US)
G04B 1/16 (2013.01 - CN); **G04B 13/00** (2013.01 - US); **G04B 13/003** (2013.01 - EP US); **G04B 15/00** (2013.01 - CN);
G04B 15/14 (2013.01 - US); **G04B 19/02** (2013.01 - CH); **G04B 19/202** (2013.01 - CH CN EP US); **G04B 45/00** (2013.01 - CH);
G04B 17/06 (2013.01 - US)

Cited by
CH715722A1; EP3904963A1

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 3382469 A1 20181003; EP 3382469 B1 20190925; CH 713659 A1 20181015; CN 108693762 A 20181023; CN 108693762 B 20210907;
US 10579018 B2 20200303; US 2018284697 A1 20181004

DOCDB simple family (application)
EP 18162146 A 20180315; CH 4252017 A 20170330; CN 201810295988 A 20180330; US 201815942125 A 20180330