

Title (en)
ANNULAR ROTATING BEZEL SYSTEM COMPRISING A SPRING RING

Title (de)
SYSTEM EINES DREHBAREN AUSSENRINGS EINER ARMBANDUHR, DAS EINEN FEDERRING UMFASST

Title (fr)
SYSTEME DE LUNETTE TOURNANTE ANNULAIRE COMPRENANT UN ANNEAU RESSORT

Publication
EP 3543800 B1 20211110 (FR)

Application
EP 18162851 A 20180320

Priority
EP 18162851 A 20180320

Abstract (en)
[origin: JP2019164129A] To provide an annular rotation bezel system in which flexibility of a spring ring is increased in a plane and which can be produced easily.SOLUTION: An annular rotation bezel system 6 rotatable on a middle case 4 of a watch case 2 comprises: a rotation bezel 14; an annular holding ring 16; a ring with a tooth 18; and a spring ring 20 which can elastically deform along a radius. The spring ring 20 elastically cooperates with the ring 18 with a tooth, the ring 18 with a tooth and the spring ring 20 are held in an axial direction vertical to a plane of a movement by the annular holding ring 16, and any one of the ring 18 with a tooth and the spring ring 20 is coupled to the rotation bezel 14 in an angular state, the other thereof is coupled to the middle case 4 in an angular state, the spring ring 20 has at least one thin part 38 which increases flexibility, the thin part 38 has at least one tooth part 40 engaged to the ring 18 with a tooth elastically in a radial direction.SELECTED DRAWING: Figure 1

IPC 8 full level
G04B 19/28 (2006.01)

CPC (source: CN EP KR US)
G04B 19/283 (2013.01 - CN KR US); **G04B 19/286** (2013.01 - EP US)

Cited by
CN112612197A; EP4020098A1; EP4020097A1; US11977355B2

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 3543800 A1 20190925; EP 3543800 B1 20211110; CN 110308637 A 20191008; CN 110308637 B 20220408; JP 2019164129 A 20190926; JP 6793771 B2 20201202; KR 102213581 B1 20210208; KR 20190110443 A 20190930; US 11385597 B2 20220712; US 2019294114 A1 20190926

DOCDB simple family (application)
EP 18162851 A 20180320; CN 201910208584 A 20190319; JP 2019044503 A 20190312; KR 20190029947 A 20190315; US 201916290997 A 20190304