

Title (en)
Regulating system for a clock movement

Title (de)
Reguliersystem für Uhrwerk

Title (fr)
Système réglant pour mouvement d'horlogerie

Publication
EP 2874020 A1 20150520 (FR)

Application
EP 14192316 A 20141107

Priority
• EP 13193167 A 20131115
• EP 14192316 A 20141107

Abstract (en)
[origin: JP2015096852A] PROBLEM TO BE SOLVED: To provide a regulating system capable of changing positional energy of a power spring at a time point or substantially the time point when speed of a trunk roller becomes zero. SOLUTION: A regulating system 110 for a timepiece movement 12 comprising a first sub system comprises: a first oscillator O111 comprising a first trunk roller B111 and a first hair power spring S111; a first displacement element M111 of the first hair power spring S111; and a first actuation element A111 of the first displacement element M111 at a time point or substantially the time point when the speed of the first trunk roller B111 becomes zero.

Abstract (fr)
Système réglant (110) pour mouvement d'horlogerie (12), comprenant un premier sous-système (11) incluant : #ç un premier oscillateur (O111) incluant un premier balancier (B111) et un premier ressort-spiral (S111) ; #ç un premier élément (M111) de déplacement du premier ressort-spiral (S111) ; et #ç un premier élément (A111) d'activation du premier élément (M111) de déplacement à un instant ou sensiblement à un instant où la vitesse du premier balancier (B111) est nulle.

IPC 8 full level
G04B 17/06 (2006.01); **G04B 15/06** (2006.01); **G04B 17/04** (2006.01); **G04B 18/02** (2006.01)

CPC (source: EP US)
G04B 15/06 (2013.01 - EP US); **G04B 17/04** (2013.01 - EP US); **G04B 17/06** (2013.01 - EP US); **G04B 18/02** (2013.01 - EP US)

Citation (applicant)
• WO 0004424 A1 20000127 - CREAMHOLIC SA [CH], et al
• WO 0004425 A1 20000127 - CREAMHOLIC SA [CH], et al
• WO 0159529 A1 20010816 - CREAMHOLIC SA [CH], et al
• EP 2246752 A1 20101103 - RICHEMONT INT SA [CH]

Citation (search report)
• [A] US 3154912 A 19641103 - DAVID PINKAS
• [A] CH 344372 A 19600131 - ISORAC S A [CH]
• [A] FR 1012356 A 19520709 - LIP HORLOGERIE
• [A] FR 477837 A 19151110 - AUGUSTIN EMILE CLERC [FR]
• [AD] WO 0004425 A1 20000127 - CREAMHOLIC SA [CH], et al

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2874020 A1 20150520; **EP 2874020 B1 20161026**; CN 104656405 A 20150527; CN 104656405 B 20190607; JP 2015096852 A 20150521; JP 6470016 B2 20190213; US 2015138933 A1 20150521; US 9081365 B2 20150714

DOCDB simple family (application)
EP 14192316 A 20141107; CN 201410647981 A 20141114; JP 2014227636 A 20141110; US 201414542069 A 20141114