

Title (en)
SPRING FOR NOTCHING SYSTEM AND TIMEPIECE NOTCHING SYSTEM

Title (de)
FEDER FÜR EIN RASTUNGSSYSTEM UND RASTUNGSSYSTEM EINES UHRWERKS

Title (fr)
RESSORT POUR SYSTÈME DE CRANTAGE ET SYSTÈME DE CRANTAGE HORLOGER

Publication
EP 4020098 A1 20220629 (FR)

Application
EP 21216230 A 20211221

Priority
EP 20216575 A 20201222

Abstract (en)
[origin: US2022197221A1] A notching system (100) including a spring (1) having a first including n first teeth (11a, 12a) a first member (2) having a second toothset including m second teeth (22a, 22b), and a second member (3) mounted so as to be movable, in particular mounted so as to be rotatable, with respect to the first member (2), the first and second toothsets being arranged such that, through their interactions, they define p notches or indexed positions, the spring (1) including at least two elastic arms (11, 12), and at least one first pivot connection element (1b) between said two elastic arms (11, 12), the second member including at least one second pivot connection element (3b) cooperating with the at least one first pivot connection element (1b) in order to create at least one pivot connection between the spring (1) and the second member (3).

Abstract (fr)
Système de crantage (100) comprenant :- un ressort (1) incluant une première denture comprenant n premières dents (11a, 12a), - un premier organe (2) incluant une deuxième denture comprenant m deuxièmes dents (22a, 22b), et- un deuxième organe (3) monté mobile, notamment monté mobile en rotation, par rapport au premier organe (2), les première et deuxième dentures étant agencées de sorte que, par leurs interactions, elles définissent p crans ou positions indexées, le ressort (1) comprenant :- au moins deux bras élastiques (11, 12), et- au moins un premier élément de liaison pivot (1b) entre lesdits deux bras élastiques (11, 12), le deuxième organe comprenant au moins un deuxième élément de liaison pivot (3b) coopérant avec l'au moins un premier élément de liaison pivot (1b) pour créer au moins une liaison pivot entre le ressort (1) et le deuxième organe (3).

IPC 8 full level
G04B 3/08 (2006.01); **G04B 19/22** (2006.01); **G04B 19/28** (2006.01); **G04B 27/00** (2006.01); **G04B 37/00** (2006.01)

CPC (source: CN EP US)
G04B 19/221 (2013.01 - EP); **G04B 19/223** (2013.01 - CN); **G04B 19/225** (2013.01 - CN); **G04B 19/283** (2013.01 - CN EP); **G04B 19/286** (2013.01 - US); **G04B 27/005** (2013.01 - EP); **G04B 37/0008** (2013.01 - CN); **G04B 37/0033** (2013.01 - EP); **G04B 3/08** (2013.01 - EP); **G04B 11/003** (2013.01 - EP); **G04B 11/008** (2013.01 - EP); **G04B 11/02** (2013.01 - EP)

Citation (applicant)
• EP 2624076 A1 20130807 - MONTRES TUDOR SA [CH]
• EP 0686897 A1 19951213 - ROLEX MONTRES [CH]
• EP 1431845 A1 20040623 - ROLEX SA [CH]
• EP 3543800 A1 20190925 - OMEGA SA [CH]
• EP 3608730 A1 20200212 - OMEGA SA [CH]
• EP 1544691 A1 20050622 - ETA SA MFT HORLOGERE SUISSE [CH]
• EP 3379342 A1 20180926 - OFFICINE PANERAI AG [CH]
• CH 454375 A 19680415 - PHILIPS NV [NL]

Citation (search report)
• [XA] EP 0322511 A1 19890705 - INT WATCH CO IWC [CH]
• [XDA] EP 1431845 A1 20040623 - ROLEX SA [CH]
• [A] EP 3499319 A2 20190619 - ROLEX SA [CH]
• [A] CH 704893 A2 20121115 - PATEK PHILIPPE SA GENEVE [CH]

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 4020098 A1 20220629; CN 114660919 A 20220624; JP 2022099298 A 20220704; US 2022197221 A1 20220623

DOCDB simple family (application)
EP 21216230 A 20211221; CN 202111578628 A 20211222; JP 2021205785 A 20211220; US 202117558569 A 20211221