

Title (en)
APPARATUS FOR INTERRUPTING AN ELECTRIC CURRENT

Title (de)
GERÄT ZUR UNTERBRECHUNG EINES ELEKTRISCHEN STROMS

Title (fr)
APPAREIL DE COUPURE D'UN COURANT ÉLECTRIQUE

Publication
EP 3667689 A1 20200617 (FR)

Application
EP 19216151 A 20191213

Priority
FR 1872958 A 20181214

Abstract (en)
[origin: US2020194193A1] A device for switching an electric current with separable electrical contacts includes a switching mechanism including: a switching shaft that is coupled to a mobile electrical contact; a trip hook that is pivotably mounted on a fixed support of the mechanism; a linking system coupling the switching shaft to the trip hook. The linking system includes a first pair of connecting rods that are pivotably mounted on the trip hook and a second pair of connecting rods that are mounted so as to pivot with a crank of the switching shaft. The first connecting rods are connected to the second connecting rods with a single axis of articulation which forms a pivot link between the first connecting rods and the second connecting rods.

Abstract (fr)
Cet appareil de coupure (2) d'un courant électrique à contacts électriques séparables comporte un mécanisme (10) de commutation comprenant : un arbre de commutation (20) couplé à un contact électrique mobile (6) ; un crochet de déclenchement (40) monté pivotant sur un support fixe du mécanisme ; un système de liaison (22) couplant l'arbre de commutation au crochet de déclenchement. Le système de liaison (22) comporte une première paire (42) de bielles montées pivotantes sur le crochet de déclenchement et une deuxième paire (44) de bielles montées pivotantes avec une manivelle (24) de l'arbre de commutation. Les premières bielles sont connectées avec les deuxièmes bielles au moyen d'un unique axe d'articulation (68) qui forme une liaison pivot entre les premières bielles et les deuxièmes bielles.

IPC 8 full level
H01H 3/30 (2006.01); **H01H 71/52** (2006.01)

CPC (source: CN EP KR US)
H01H 3/04 (2013.01 - US); **H01H 3/161** (2013.01 - KR); **H01H 3/30** (2013.01 - CN); **H01H 3/3015** (2013.01 - EP); **H01H 3/3021** (2013.01 - EP); **H01H 3/3052** (2013.01 - EP); **H01H 3/32** (2013.01 - KR US); **H01H 3/54** (2013.01 - KR); **H01H 50/00** (2013.01 - CN); **H01H 71/10** (2013.01 - CN); **H01H 71/525** (2013.01 - EP); **H01H 2235/01** (2013.01 - US)

Citation (applicant)
FR 2985600 B1 20141128 - SCHNEIDER ELECTRIC IND SAS [FR]

Citation (search report)
• [XYI] CN 204375676 U 20150603 - ZHEJIANG CHINA ELEC APPLIANCE
• [YA] EP 3291276 A1 20180307 - SEARI ELECTRIC TECHNOLOGY CO LTD [CN], et al
• [YA] US 6157275 A 20001205 - GULA LANCE [US]
• [A] EP 3153722 A1 20170412 - GENERAL ELECTRIC TECHNOLOGY GMBH [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 3667689 A1 20200617; **EP 3667689 B1 20240529**; CN 111326353 A 20200623; FR 3090188 A1 20200619; FR 3090188 B1 20220204; KR 20200074025 A 20200624; RU 2019141078 A 20210615; US 11031191 B2 20210608; US 2020194193 A1 20200618

DOCDB simple family (application)
EP 19216151 A 20191213; CN 201911291183 A 20191216; FR 1872958 A 20181214; KR 20190165009 A 20191211; RU 2019141078 A 20191212; US 201916706924 A 20191209