

Title (en)
DEVICE FOR TENSIONING THE CUT-IN SPRING IN ACTUATOR UNITS FOR CIRCUIT BREAKERS, IN PARTICULAR VACUUM CIRCUIT BREAKERS

Title (de)
EINRICHTUNG ZUM SPANNEN DER EINSCHALTFEDER VON ANTRIEBSEINRICHTUNGEN FÜR ELEKTRISCHE LEISTUNGSSCHALTER, INSBESONDERE VAKUUMLEISTUNGSSCHALTER

Title (fr)
DISPOSITIF PERMETTANT DE TENDRE LE RESSORT DE MISE EN CONTACT DE SYSTEMES D'ENTRAINEMENT POUR SECTIONNEURS DE PUISSANCE, NOTAMMENT SECTIONNEURS DE PUISSANCE A VIDE

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Abstract (en)
[origin: WO9527992A1] The invention concerns a device for tensioning the cut-in spring in actuator units for circuit breakers, in particular vacuum circuit breaker, the cut-in spring (7) being designed as a tensioning spring which is in contact with a cam (2) mounted on the cut-in shaft (5) and which can be tensioned both by an electric motor (20) and by a hand-turned shaft (21) through a spur-gear train, the last spur gearwheel (1) also being mounted on the cut-in shaft (5). The aim of the invention is to design a tensioning device in which the spur-gear train operates without overrunning, and reversing of the cam (2) is prevented or limited by the cut-in spring (7). This is achieved by virtue of the fact that the last spur gearwheel (1) in the spur-gear train is disposed over an overrunning bearing (6) on the cut-in shaft (5) in such a way that, when cut-in spring tensioning begins, the cam (2) and hence also the cut-in shaft (5), are carried directly by the last spur gearwheel (1) out of a position in which they are located past the bottom dead centre position (9) of the shaft (5) as the cam (2) rotates upwards, while, during the cut-in phase, the last spur gearwheel (1) is locked in position, when the cut-in shaft (5) turns through bottom dead centre (9), by the overrunning bearing (6) and by the operative connection with the other spur gearwheels in the spur-gear train.

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