

Title (en)
ELECTRIC SUPPORTING ROD

Title (de)
ELEKTRISCHE TRAGSTANGE

Title (fr)
TIGE DE SUPPORT ÉLECTRIQUE

Publication
EP 4209653 A1 20230712 (EN)

Application
EP 22177165 A 20220603

Priority
TW 111100731 A 20220107

Abstract (en)
This disclosure is directed to an electric support rod having a driving assembly (100), an actuating assembly (200), and a bearing (300). The driving assembly (100) has a first outer tube (110) and a driving unit (130) in the first outer tube (110). An internal thread (112) is configured in the first outer tube (110). The actuating assembly (200) has a second outer tube (210) and a transmission screw rod (230) in the second outer tube (210). Multiple elastic arms (220) axially are extended from the second outer tube (210) and arranged spacedly around the transmission screw rod (230). Each elastic arm (220) has an outer thread structure (222) and a hook portion (223). The second outer tube (210) is inserted in the first outer tube (110), the internal thread (112) is screwed with the outer thread structure (222). One end of the transmission screw rod (230) protrudes from the second outer tube (210) to engage the driving unit (130). The bearing (300) sheathes the transmission screw rod (230) and the hook portion (223) latches the bearing (300).

IPC 8 full level
E05F 15/622 (2015.01)

CPC (source: EP)
E05F 15/622 (2015.01); **E05Y 2201/10** (2013.01); **E05Y 2600/51** (2013.01); **E05Y 2800/232** (2013.01); **E05Y 2900/546** (2013.01)

Citation (search report)
• [A] CN 215212981 U 20211217 - FUZHOU MINGFANG AUTO PARTS IND CO LTD, et al
• [A] US 2017145727 A1 20170525 - YAMAGATA MIKIO [JP], 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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4209653 A1 20230712; **EP 4209653 B1 20240327**; **EP 4209653 C0 20240327**; TW 202327919 A 20230716; TW I790884 B 20230121

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