

Title (en)
SELF-LOCKING STRUCTURE FOR TOILET SEAT BUMPER

Title (de)
SELBSTSICHERNDE STRUKTUR FÜR EINEN TOILETTENSITZSTOSSDÄMPFER

Title (fr)
STRUCTURE AUTOBLOQUANTE POUR BUTOIR DE SIÈGE DE TOILETTE

Publication
EP 4094655 B1 20230712 (EN)

Application
EP 22164636 A 20220328

Priority
CN 202121150056 U 20210526

Abstract (en)
[origin: EP4094655A1] The present disclosure discloses a self-locking structure for a toilet seat bumper, including a fixed seat and a cover plate, a mounting hole is arranged on the cover plate, a seat hinge assembly is installed in the mounting hole, and the cover plate is provided with an arc-shaped hole communicated with the mounting hole in the radial direction. The seat hinge assembly includes a hinge shaft and an annular elastic buckle. The annular elastic buckle includes an annular portion and a raised portion arranged on the end face of the annular portion and protruding radially outward of the annular portion. The outer circumference of the hinge shaft is provided with an annular groove in which the annular portion is sleeved, and the outer circumference of the hinge shaft is further provided with an avoidance slot communicated with the annular groove, and the avoidance slot is configured for accommodating the raised portion entirely. When the annular portion of the annular elastic buckle is sleeved on the periphery of the annular groove of the hinge shaft, the top of the raised portion is higher than the peripheral surface of the hinge shaft, so that during the assembly process, the raised portion of the annular elastic buckle is clamped in the arc-shaped hole from outside to inside through the mounting hole along the axis direction of the mounting hole, so as to realize the axial fixation of the seat hinge assembly in the mounting hole.

IPC 8 full level
A47K 13/12 (2006.01); **A47K 13/26** (2006.01); **A47K 13/24** (2006.01)

CPC (source: EP)
A47K 13/12 (2013.01); **A47K 13/26** (2013.01)

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

DOCDB simple family (publication)
EP 4094655 A1 20221130; EP 4094655 B1 20230712; EP 4094655 C0 20230712; CN 215127932 U 20211214; ES 2952325 T3 20231030

DOCDB simple family (application)
EP 22164636 A 20220328; CN 202121150056 U 20210526; ES 22164636 T 20220328