

Title (en)
HINGED STRUCTURE FOR TOILET COVER PLATE

Title (de)
SCHARNIERSTRUKTUR FÜR TOILETTENDECKELPLATTE

Title (fr)
STRUCTURE À CHARNIÈRE POUR PLAQUE DE RECouvreMENT DE TOILETTES

Publication
EP 4094654 B1 20230712 (EN)

Application
EP 22164503 A 20220325

Priority
CN 202121150566 U 20210526

Abstract (en)
[origin: EP4094654A1] The present disclosure discloses a hinged structure for a toilet cover plate, which includes a fixed seat and a cover plate, the cover plate is provided with a mounting hole, the mounting hole is provided with a seat hinge assembly, the seat hinge assembly includes an oil core sleeve fixedly arranged in the mounting hole, and the seat hinge assembly also includes a hinge shaft, the hinge shaft includes an oil core part rotatably arranged in the oil core sleeve and a seat hinge part inserted and matched with the connection column on the fixed seat. The oil core part is formed integrally with the seat hinge part, and the opening of the mounting hole is provided with an inward protruding annular flange. When the seat hinge assembly is installed in the mounting hole, the seat hinge assembly abuts with the annular flange through a rhombus elastic buckle, so as to fix the seat hinge assembly axially, the seat hinge part and the oil core part provided by the present disclosure are integrally formed, which can effectively reduce the coaxiality error of the seat hinge assembly, so as to reduce the mechanical fatigue of the damper parts and prolong the service life, while the disassembly and assembly of the seat hinge assembly can be quickly completed through the rhombus elastic buckle, so as to realize the rotating installation between the cover plate and the fixed seat.

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

CPC (source: EP)
A47K 13/12 (2013.01); **A47K 13/24** (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 4094654 A1 20221130; EP 4094654 B1 20230712; EP 4094654 C0 20230712; CN 215457583 U 20220111; ES 2952324 T3 20231030

DOCDB simple family (application)
EP 22164503 A 20220325; CN 202121150566 U 20210526; ES 22164503 T 20220325