

Title (en)  
FASTENING UNIT FOR SANITARY APPLIANCES

Title (de)  
BEFESTIGUNGSVORRICHTUNG FÜR SANITÄRGEGENSTÄNDE

Title (fr)  
UNITÉ DE FIXATION POUR DES APPAREILS SANITAIRES

Publication  
**EP 3633114 A1 20200408 (EN)**

Application  
**EP 19460047 A 20190912**

Priority  
PL 42733018 A 20181004

Abstract (en)  
A fastening unit for a sanitary appliance (6) includes a body (1) with a bushing (3) with an external thread (4) and an external nut (5). Two meshing gear wheels (7, 8) forming a bevelled gear are rotating in sockets inside the body (1). The axis of rotation of the driven gear wheel (7) of the gear coincides with the axis of symmetry of the pin fastening the sanitary appliance (6). The axis of rotation of the driving gear wheel (8) is transverse to the axis of rotation of the driven gear wheel (7). The body (1) of the fastening unit of the sanitary appliance (6) includes a flat wall (2), under which the driving gear wheel (8) is located, and a cover (15). The axial opening (11) of the driven gear wheel (7) is provided with an internal thread meshing with the external thread of the pin fastening the sanitary appliance (6). Wall (2) of the body (1) is provided with a guide bushing (12) of the drive key (9), wherein a seal (13) of the drive key (9) is located inside the guide bushing (12).

IPC 8 full level  
**E03D 11/14** (2006.01); **E03C 1/322** (2006.01)

CPC (source: EP)  
**E03C 1/322** (2013.01); **E03D 11/14** (2013.01)

Citation (applicant)  
• EP 1321589 A2 20030625 - FISCHER ARTUR WERKE GMBH [DE]  
• WO 2018065355 A1 20180412 - RATHAMMER ANDRE [AT], et al  
• WO 2017058284 A1 20170406 - C&D ZODIAC INC [US]  
• WO 2016041624 A1 20160324 - FISCHERWERKE GMBH & CO KG [DE]  
• WO 2013167186 A1 20131114 - LAUFEN KERAMIK HOLDING [CH], et al  
• WO 2009071178 A1 20090611 - FISCHERWERKE GMBH & CO KG [DE], et al

Citation (search report)  
• [XPY] EP 3498926 A1 20190619 - XIAMEN R&J PRECISION TECH CO LTD [CN]  
• [Y] DE 202012104847 U1 20130322 - SANITEC OY [FI]

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)  
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**EP 3633114 A1 20200408**; DE 202019005531 U1 20201222; PL 241058 B1 20220725; PL 427330 A1 20200406

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