

Title (en)  
OPEN LOCKING RING COMPRISING A SCREW LOCK

Title (de)  
OFFENER SPANNRING MIT SCHRAUBENSCHLOSS

Title (fr)  
COLLIER TENDEUR OUVERT PRESENTANT UN FERMOIR A VIS

Publication  
**EP 1856435 A1 20071121 (DE)**

Application  
**EP 06707452 A 20060307**

Priority  
• EP 2006002081 W 20060307  
• DE 102005011071 A 20050308  
• DE 102005017368 A 20050414

Abstract (en)  
[origin: WO2006094761A1] The invention relates to an open locking ring (14) comprising a screw lock which is used to connect pipes comprising end flanges or to fix covers to containers or the like. Said screw lock comprises a clamping screw which extends in the peripheral direction and is embodied as a double spindle (1), the ends of said clamping screw being provided with counterrotating threads (2, 3). Said threads (2, 3) engage in threaded plates (6, 10) with a right-handed inner thread (7) or a left-handed inner thread (11), the threaded plates (6, 10) being pivotably mounted in bearing blocks (15) connected to the ends of the clamping ring (14). The ends (13) of the clamping ring (14) are pulled together or pushed away from each other by actuating the double spindle (1). To this end, the double spindle (1) is provided with a central part (4) embodied as a hexagon such that a simple fork spanner (23) can be used to open or close the screw lock. The ends of the double spindle (1) are provided with inner hexagons (5) so that alternatively an Allen key (22) can be used to actuate the double spindle.

IPC 8 full level  
**F16L 23/10** (2006.01)

CPC (source: EP US)  
**F16L 23/10** (2013.01 - EP US); **Y10T 24/1441** (2015.01 - EP US)

Citation (search report)  
See references of WO 2006094761A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2006094761 A1 20060914**; DE 102005017368 A1 20060921; EP 1856435 A1 20071121; US 2008164691 A1 20080710

DOCDB simple family (application)  
**EP 2006002081 W 20060307**; DE 102005017368 A 20050414; EP 06707452 A 20060307; US 90807506 A 20060307