

Title (en)  
TOOTH AND ADAPTOR ASSEMBLY

Title (de)  
ZAHN UND ADAPTERANORDNUNG

Title (fr)  
ENSEMBLE À ADAPTATEUR ET À DENT

Publication  
**EP 1778924 A4 20110706 (EN)**

Application  
**EP 05764204 A 20050802**

Priority  
• AU 2005001154 W 20050802  
• AU 2004904285 A 20040802

Abstract (en)  
[origin: WO2006012689A1] Abstract A tooth and adaptor assembly (11) for use on earthmoving machinery, the assembly comprising an adaptor (21) adapted to be secured to a bucket or like component on the earthmoving machinery. The adaptor (21) comprising a nose (27) having an at least one sidewall (35) incorporating a first channel (37) and a second channel (39) angled relative to each other. The assembly (11) also a tooth (41) adapted to be received on the adaptor (41) and releasably secured thereto. The tooth comprises a socket (43) having sidewalls (53). At least one sidewall (53) incorporates a third channel (55) at an angle complementary to the second channel (39), such that when assembled the two channels (39, 55) co-operate to define an enclosure (91). An upper wall (49) of the socket (43) has at least one aperture (57) therethrough, and which is aligned with the third channel (55). The assembly (11) further comprises at least one locking mechanism (71) for locking the tooth (41) to the adaptor (21). The locking mechanism (71) having at least one projection (77) and adapted to be received through the aperture (57). During assembly the projection (77) moves inwardly with respect to the locking mechanism (71) as it enters the enclosure, the locking mechanism (71) moving towards its normal extended position when the projection (77) aligns with the first channel (37) wherein the assembly (11) is in its locked condition.

IPC 8 full level  
**E02F 9/28** (2006.01)

CPC (source: EP US)  
**E02F 9/2825** (2013.01 - EP US); **E02F 9/2833** (2013.01 - EP US); **E02F 9/2841** (2013.01 - EP US)

Citation (search report)  
• [XA] EP 1096073 A1 20010502 - METALOGENIA SA [ES]  
• [XI] US 5423138 A 19950613 - LIVESAY RICHARD E [US], et al  
• [X] US 5561925 A 19961008 - LIVESAY RICHARD E [US]  
• See references of WO 2006012689A1

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 2006012689 A1 20060209**; AU 2005269266 A1 20060209; AU 2011100261 A4 20110414; CA 2576218 A1 20060209;  
CN 101006230 A 20070725; CN 101892684 A 20101124; EP 1778924 A1 20070502; EP 1778924 A4 20110706; US 2008201997 A1 20080828;  
ZA 200701815 B 20080827

DOCDB simple family (application)  
**AU 2005001154 W 20050802**; AU 2005269266 A 20050802; AU 2011100261 A 20110309; CA 2576218 A 20050802;  
CN 200580026326 A 20050802; CN 201010214747 A 20050802; EP 05764204 A 20050802; US 57297505 A 20050802;  
ZA 200701815 A 20070301