

Title (en)
TRANSMISSION ELEMENT, PARTICULARLY FOR WIND TURBINES

Title (de)
GETRIEBEELEMENT, INSBESONDERE FÜR WINDTURBINEN

Title (fr)
ÉLÉMENT DE TRANSMISSION, EN PARTICULIER POUR TURBINES ÉOLIENNES

Publication
EP 3117097 A1 20170118 (EN)

Application
EP 14708907 A 20140311

Priority
EP 2014054691 W 20140311

Abstract (en)
[origin: WO2015135573A1] A transmission element (1), particularly for wind turbines, comprising a first shaft (2) and a second shaft (3) which are connected by way of a crossbar (4) provided with a first pair of arms (5) and a second pair of arms (6) that are perpendicular to each other. The second shaft (3) can move by rotation about a respective third axis (3a) and is connected rotatably to the first pair of arms (5) about a respective first axis (5a) that passes through the first pair of arms. The transmission element comprises a supporting element (7) that is associated with a supporting frame (8) and can move by rotation about a working axis (9a) that is normal to a respective working plane (9) that is inclined with respect to the third axis (3a). Furthermore, the supporting element (7) comprises seats (10) for the engagement of the second pair of arms (6) that are able to move by rotation about a respective second axis (6a) that passes through the second pair of arms. The first shaft (2) is integral with the crossbar (4) and is provided with a precession motion about a central axis (11) that is incident to the third axis (3 a) in the origin of the precession motion and performs a progressive rotation that is equal to a straight angle about a respective fourth axis (2a) that passes through the first shaft during the completion of the precession motion.

IPC 8 full level
F03D 15/00 (2016.01); **F03D 3/00** (2006.01); **F03D 3/06** (2006.01)

CPC (source: EP US)
F03D 3/005 (2013.01 - EP); **F03D 3/068** (2013.01 - EP); **F03D 9/25** (2016.05 - EP US); **F03D 15/00** (2016.05 - EP);
F03D 15/10 (2016.05 - EP US); **F03D 15/20** (2016.05 - EP); **F05B 2240/211** (2013.01 - EP); **F05B 2260/403** (2013.01 - EP);
Y02E 10/74 (2013.01 - EP)

Citation (search report)
See references of WO 2015135573A1

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)
BA ME

DOCDB simple family (publication)
WO 2015135573 A1 20150917; EP 3117097 A1 20170118

DOCDB simple family (application)
EP 2014054691 W 20140311; EP 14708907 A 20140311