

Title (en)  
TELESCOPIC DRIVE SHAFT

Title (de)  
TELESKOPIERBARE ANTRIEBSWELLE

Title (fr)  
ARBRE D'ENTRAÎNEMENT TÉLESCOPIQUE

Publication  
**EP 3004668 A1 20160413 (DE)**

Application  
**EP 14727163 A 20140523**

Priority  
• DE 102013009497 A 20130605  
• EP 2014001397 W 20140523

Abstract (en)  
[origin: WO2014194989A1] The present invention discloses a drive shaft (1) which has at least one outer shaft section (11) with a hollow end section of cylindrical internal cross section and at least one inner shaft section (12) which penetrates at least along a first penetrating depth (L1) into the hollow end section of the outer shaft section (11). The shaft sections (11, 12) are connected in an integrally joined manner on a contact surface between an outer wall of the inner shaft section (12) and an inner wall of the outer shaft section (11) along the first penetrating depth (L1). The integrally joined connection (12') has a longitudinally axial load-bearing capability, which is lower than a predefined buckling force, for buckling the shaft sections (11, 12) when the drive shaft (1) is loaded in a longitudinally axial manner. The inner shaft section (12) can penetrate more deeply than the first penetrating depth (L1) into the hollow end of the outer shaft section (11) when an axial force is applied which is greater than the buckling force.

IPC 8 full level  
**F16C 3/02** (2006.01); **F16C 3/03** (2006.01)

CPC (source: EP US)  
**F16C 3/023** (2013.01 - EP US); **F16C 3/026** (2013.01 - EP US); **F16C 3/03** (2013.01 - EP US)

Citation (search report)  
See references of WO 2014194989A1

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 2014194989 A1 20141211**; CN 105308335 A 20160203; DE 102013009497 A1 20141211; EP 3004668 A1 20160413; JP 2016520184 A 20160711; US 2016123376 A1 20160505

DOCDB simple family (application)  
**EP 2014001397 W 20140523**; CN 201480032058 A 20140523; DE 102013009497 A 20130605; EP 14727163 A 20140523; JP 2016517182 A 20140523; US 201414896349 A 20140523