

Title (en)  
A CONCENTRIC CAMSHAFT ARRANGEMENT

Title (de)  
KONZENTRISCHE NOCKENWELLE

Title (fr)  
ARBRE A CAMES CONCENTRIQUE

Publication  
**EP 2875217 A2 20150527 (EN)**

Application  
**EP 13779347 A 20130712**

Priority  
• GB 201212683 A 20120717  
• IB 2013055764 W 20130712

Abstract (en)  
[origin: GB2504100A] A concentric camshaft arrangement comprises an inner shaft 112 and an outer tube 114, concentrically arranged with the inner shaft and operable to rotate relative to a cylinder head 121. A first set of lobes 116 is fixed to the outer tube for rotation therewith. A second set of lobes 118 is attached to the inner shaft for rotation therewith and relative to the outer tube. Rolling bearings 144 are arranged in a housing and have a radial clearance. A camshaft oil feed 122 for supplying oil for lubrication of the camshaft is defined by an oil feed clearance between the outer surface of the outer tube 114 and an inner surface of the cylinder head 121 and wherein the oil feed radial clearance is greater than the rolling bearing radial clearance. This arrangement ensures that all the camshaft loads are supported by the bearings and not shared by the oil feed.

IPC 8 full level  
**F01L 1/047** (2006.01); **F01L 1/344** (2006.01)

CPC (source: CN EP GB US)  
**F01L 1/047** (2013.01 - CN EP GB US); **F01L 1/344** (2013.01 - GB); **F01L 1/34413** (2013.01 - CN EP US); **F01L 1/3442** (2013.01 - CN EP US); **F01M 9/102** (2013.01 - US); **F01L 2001/0473** (2013.01 - CN EP GB US); **F01L 2001/0476** (2013.01 - CN EP US); **F01L 2001/34423** (2013.01 - CN EP US); **F01L 2810/02** (2013.01 - CN EP US); **Y10T 74/2101** (2015.01 - EP US)

Citation (search report)  
See references of WO 2014013409A2

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