

Title (en)

Method and apparatus for two-step cam profile switching

Title (de)

Verfahren und Vorrichtung für einen zweistufigen Nockenprofilwechsel

Title (fr)

Procédé et dispositif pour le changement du profil d'une came en deux étapes

Publication

EP 1149988 B1 20051102 (EN)

Application

EP 01201493 A 20010425

Priority

US 19971600 P 20000426

Abstract (en)

[origin: EP1149988A2] A two-step roller finger follower (10) includes an elongate body (20). The first (38) and second side (36) member define first and second pin orifices (50,52), respectively. A center roller (26) is disposed between the side members. The center roller defines a shaft orifice (26b) therethrough. A shaft (30) extends through the shaft orifice. A first shaft (30a) end is disposed proximate the first side member, and the second shaft end (30b) is disposed proximate the second side member. The second shaft end defines a shaft bore (82) therein. The first shaft end defines a pin chamber (84) therein. The shaft bore being is substantially concentric with and intersects the pin chamber. A locking pin assembly (22) is disposed partially within the shaft bore, the pin chamber and at least one of the pin orifices. The locking pin assembly has a first position wherein the shaft is decoupled from the body and a second position wherein the shaft is coupled to the body, and is switchable between the first and second positions.

IPC 1-7

F01L 1/26

IPC 8 full level

F01L 1/18 (2006.01); **F01L 1/26** (2006.01); **F01L 13/00** (2006.01)

CPC (source: EP)

F01L 1/185 (2013.01); **F01L 1/267** (2013.01); **F01L 13/0036** (2013.01); **F01L 2001/186** (2013.01); **F01L 2305/00** (2020.05)

Cited by

EP2305966A1; EP2063074A1; WO2007035673A2; US8794205B2; US7546822B2; US10400639B2; WO2013156610A1; WO2011113702A1; WO03042510A1; US9470116B2; US10196943B2; WO03042507A1; WO2007035673A3; EP1318278A2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1149988 A2 20011031; **EP 1149988 A3 20011114**; **EP 1149988 B1 20051102**; DE 60114501 D1 20051208; DE 60114501 T2 20060427

DOCDB simple family (application)

EP 01201493 A 20010425; DE 60114501 T 20010425