

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

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Application

EP 01201493 A 20010425

Priority

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Abstract (en)

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.

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IPC 8 full level

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CPC (source: EP)

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Cited by

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

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