

Title (en)  
PHASER ASSEMBLY FOR AN INTERNAL COMBUSTION ENGINE

Title (de)  
NOCKENVERSTELLVORRICHTUNG FÜR EINE BRENNKRAFTMASCHINE

Title (fr)  
DÉPHASEUR POUR MOTEUR A COMNBUSTION INTERNE

Publication  
**EP 2456961 A1 20120530 (EN)**

Application  
**EP 10742896 A 20100709**

Priority  
• GB 0912789 A 20090723  
• IB 2010053162 W 20100709

Abstract (en)  
[origin: GB2472054A] A phaser assembly is mounted on one end of an i.e. engine camshaft 102 having two groups of cam lobes that can be varied in phase relative to one another and relative to a crankshaft of the engine. The phaser assembly comprises two phasers each having an input member and at least one output member. The first phaser has an input member driven directly by the engine crankshaft and an output member connectible to a first of the two groups of cam lobes, while the second phaser has an input member connected to, or formed integrally, with the output member of the first phaser and an output member driving the second of the two groups of cam lobes. The two phasers may share a common stator 114 having two groups 116a, 116b of recesses forming the working chambers of the first and second phasers, respectively. The rotor 112 and stator 114 serve as the input and output member, respectively, of the first phaser. The stator 114 is also the input member of the second phaser. The rotor 118 of the second phaser is coupled directly to the camshaft 102.

IPC 8 full level  
**F01L 1/047** (2006.01); **F01L 1/344** (2006.01); **F01L 13/00** (2006.01)

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