

Title (en)  
AN INTERNAL COMBUSTION ENGINE

Title (de)  
BRENNKRAFTMASCHINE

Title (fr)  
MOTEUR À COMBUSTION INTERNE

Publication  
**EP 3938629 A1 20220119 (EN)**

Application  
**EP 20769545 A 20200214**

Priority  
• IN 201941009700 A 20190313  
• IN 2020050146 W 20200214

Abstract (en)  
[origin: WO2020183486A1] The present subject matter relates to a camshaft assembly for an internal combustion engine for providing a mechanical type variable valve timing. The camshaft assembly (200) includes a mechanical phasing assembly (230) disposed adjacent to one of at least one intake flange (220) and at least one exhaust flange (225). At least one radially preloaded mass member (235) is capable of performing phase shift of at least one of intake flange (220) and exhaust flange (225) with respect to the driven sprocket (205) depending on speed of rotation of camshaft assembly (200). An axial-load member (245) preloaded in axial direction is disposed adjacent to the mass member (235) exerting axial load thereon. The present subject matter improves the change in opening and closing time of the valves thereby catering to the intake and exhaust requirements at all speeds of operation of the engine.

IPC 8 full level  
**F01L 1/34** (2006.01)

CPC (source: EP)  
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