

Title (en)

Externally toothed wheel drive for a cam shaft of an internal combustion engine

Title (de)

Stirnrad-Nockenwellenantrieb für eine Brennkraftmaschine

Title (fr)

Engrenage aux axes paralleles pour l'entrainement d'arbre à cames pour un moteur à combustion interne

Publication

**EP 1002945 A3 20010418 (DE)**

Application

**EP 99120961 A 19991103**

Priority

DE 19853635 A 19981120

Abstract (en)

[origin: EP1002945A2] At least one intermediate balance gearwheel(18) is located between the crankshaft timing gearwheel(12) and camshaft timing gearwheel(20), and the centre pin(36) of the balance gearwheel is freely movable in relation to the crankcase(10). The free movement of the centre pin of the balance wheel is brought about by two swinging arms, one(38) of which by one side rotatably holds the centre pin of the balance gearwheel while the other side is supported on the centre pin(42) of one(16) of the gearwheels. The other swinging arm by one side rotatably holds the centre pin of the balance gear while the side lying opposite the first arm is supported in the cylinder head housing via the centre pin(44) of the camshaft gear.

IPC 1-7

**F02F 7/00**; **F01L 1/02**

IPC 8 full level

**F01L 1/02** (2006.01); **F02F 7/00** (2006.01)

CPC (source: EP)

**F01L 1/02** (2013.01); **F01L 1/026** (2013.01)

Citation (search report)

- [A] GB 2140079 A 19841121 - PORSCHE AG
- [A] GB 1474672 A 19770525 - TATRA NP
- [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 440 (M - 1310) 14 September 1992 (1992-09-14)
- [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 388 (M - 1014) 22 August 1990 (1990-08-22)

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