

Title (en)  
Internal gear machine with teeth clearance

Title (de)  
Zahnringmaschine mit Zahnlaufspiel

Title (fr)  
Machine à engrenage interne avec jeu de dentures

Publication  
**EP 1340912 B1 20050202 (DE)**

Application  
**EP 02004344 A 20020301**

Priority  
EP 02004344 A 20020301

Abstract (en)  
[origin: EP1340912A1] The annular gear machine has an inner gearwheel (1) with external teeth (1a) meshing with internal teeth (2i) on a second gearwheel (2) with a pitch circle axis (D2) eccentric to the rotational axis of the inner gearwheel. The intermeshing teeth have a radial (PR) and a tangential gear running clearance, with the tangential clearance smaller than the radial clearance. The profile of the tooth points or tooth roots of the teeth is formed by or from the locus curve of a point on the circumference of a pitch circle, the radius of which steadily decreases or decreases from the flank regions to the apex region. An Independent claim is included for a gear set for an annular gear machine of the displacement type.

IPC 1-7  
**F04C 2/08**

IPC 8 full level  
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CPC (source: EP KR US)  
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JP 4243498 B2 20090325; KR 100536060 B1 20051214; KR 20030071628 A 20030906; MX PA03001715 A 20041206;  
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