

Title (en)
Gear machine.

Title (de)
Zahnradmaschine.

Title (fr)
Machine à engrenages.

Publication
EP 0552443 B1 19950927 (DE)

Application
EP 92120410 A 19921130

Priority
DE 4200883 A 19920115

Abstract (en)
[origin: JPH05256268A] PURPOSE: To obtain a gear-type machine capable of reducing noise generation and enhancing mechanical efficiency. CONSTITUTION: An internally toothed ring gear 3 meshes with a pinion 6 having only one tooth less than the gear. For the purpose of reducing noise, the teeth of the pinion 6 are only half as wide as the internally toothed ring gear 3. The cycloids of the internally toothed ring gear 3 and/or the pinion 6 are flattened in order to ensure adequate free passage of the teeth heads in a region opposite the point of deepest teeth engagement of the two gears in spite of minimum clearance.

IPC 1-7
F01C 1/10

IPC 8 full level
F01C 1/02 (2006.01); **F01C 1/10** (2006.01); **F03C 2/08** (2006.01); **F04C 2/08** (2006.01); **F04C 2/10** (2006.01); **F04C 18/10** (2006.01)

CPC (source: EP KR US)
F04C 2/084 (2013.01 - EP US); **F04C 2/10** (2013.01 - EP US); **F04C 18/10** (2013.01 - KR)

Cited by
EP1369588A1; EP1340914A3; DE10208408A1; US7427192B2; US6887056B2; EP0785360A1

Designated contracting state (EPC)
CH DE FR GB IT LI SE

DOCDB simple family (publication)
DE 4200883 C1 19930415; DE 59203844 D1 19951102; EP 0552443 A1 19930728; EP 0552443 B1 19950927; JP 2818723 B2 19981030; JP H05256268 A 19931005; KR 0150804 B1 19981102; KR 930016665 A 19930826; US 5368455 A 19941129

DOCDB simple family (application)
DE 4200883 A 19920115; DE 59203844 T 19921130; EP 92120410 A 19921130; JP 543493 A 19930114; KR 930000372 A 19930113; US 99019592 A 19921214