



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 1 655 490 A8

(12)

CORRECTED EUROPEAN PATENT APPLICATION

published in accordance with Art. 158(3) EPC

Note: Bibliography reflects the latest situation

(15) Correction information:

Corrected version no 1 (W1 A1)
INID code(s) 71

(51) Int Cl.:

F04C 2/10 (2006.01)

(48) Corrigendum issued on:

04.10.2006 Bulletin 2006/40

(86) International application number:

PCT/JP2004/011479

(43) Date of publication:

10.05.2006 Bulletin 2006/19

(87) International publication number:

WO 2005/015022 (17.02.2005 Gazette 2005/07)

(21) Application number: **04771466.2**

(22) Date of filing: **10.08.2004**

(84) Designated Contracting States:

DE ES FR GB IT

(72) Inventor: **HOSONO, Katsuaki**

Niigata-shi, Niigata 9508640 (JP)

(30) Priority: **12.08.2003 JP 2003207347**

(74) Representative: **HOFFMANN EITL**

Patent- und Rechtsanwälte

(71) Applicant: **Mitsubishi Materials PMG Corporation**
Niigata-shi,
Niigata
9508064 (JP)

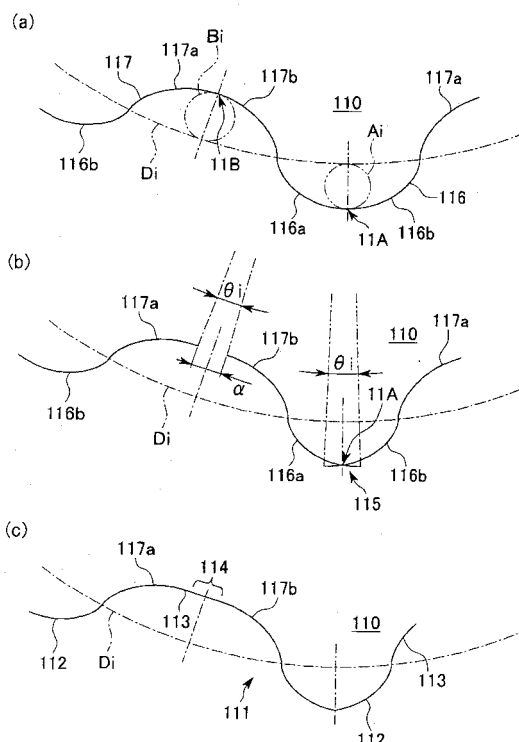
Arabellastrasse 4

81925 München (DE)

(54) **OIL PUMP ROTOR**

(57) There is disclosed a rotor pump assembly which reduces noise emitted from an oil pump while preventing pumping performance and mechanical efficiency thereof from being decreased by properly forming the profiles of teeth of an inner rotor and an outer rotor which are engageable with each other. The tooth profile of an inner rotor 110 and/or an outer rotor 120 has curved lines obtained by dividing a cycloid curve into two segments to be separated from each other, and in which the separated segments are smoothly connected to each other using a straight line or a curve.

[Figure 2]



EP 1 655 490 A8