



(11) **EP 2 388 446 A8**

(12) **CORRECTED EUROPEAN PATENT APPLICATION**

(15) Correction information:
Corrected version no 1 (W1 A1)
Corrections, see
Bibliography INID code(s) 54, 71

(51) Int Cl.:
F01L 1/344 (2006.01) F02D 13/02 (2006.01)

(48) Corrigendum issued on:
15.02.2012 Bulletin 2012/07

(43) Date of publication:
23.11.2011 Bulletin 2011/47

(21) Application number: **11158832.3**

(22) Date of filing: **18.03.2011**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME

(71) Applicant: **AISIN SEIKI KABUSHIKI KAISHA**
Kariya-shi, Aichi-ken 448-8650 (JP)

(72) Inventor: **Kaneko, Masaaki**
Kariya-shi, Aichi-ken, 448-8650 (JP)

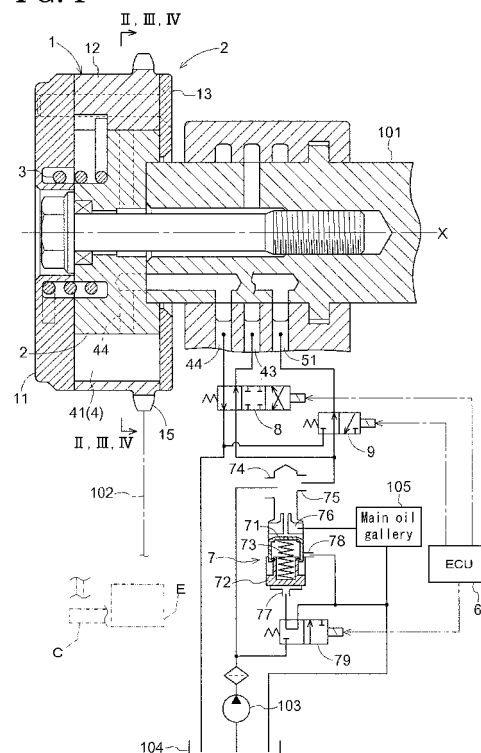
(74) Representative: **Winter, Brandl, Fűrniß, Hübner, Röss, Kaiser, Polte - Partnerschaft**
Bavariaring 10
80336 München (DE)

(30) Priority: **07.05.2010 JP 2010107613**

(54) **Valve timing control apparatus**

(57) A valve timing control apparatus includes a driving-side rotating member (1), a driven-side rotating member (2), a fluid pressure chamber (4) formed by the driving-side rotating member and the driven-side rotating member and divided into a retarded angle chamber (42) and an advanced angle chamber (41) by a parting portion (22), a fluid control valve mechanism (8) controlling a supply and a discharge of an operation fluid to and from the fluid pressure chamber, a lock mechanism (5) locking a relative rotational phase of the driven-side rotating member relative to the driving-side rotating member at a predetermined phase, a monitoring mechanism (6) monitoring a driving state of an internal combustion engine (E), and a phase setting mechanism controlling the fluid control valve mechanism to establish the predetermined phase in a case where the monitoring mechanism detects a signal indicating a likelihood of a decrease of a number of rotations of the internal combustion engine.

FIG. 1



EP 2 388 446 A8