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(71) Applicant: **Toyota Jidosha Kabushiki Kaisha**
Toyota-shi, Aichi-ken 471-8571 (JP)

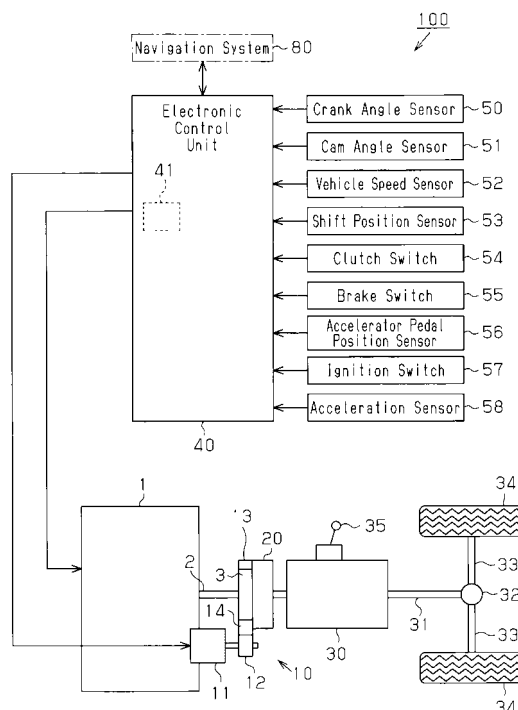
(72) Inventors:
• **Ando, Yasushi**
Toyota-shi
Aichi-ken
471-8571 (JP)
• **Kobayashi, Kazuchio**
Toyota-shi
Aichi-ken
471-8571 (JP)

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

(54) **Control apparatus for internal combustion engine**

(57) A control apparatus (100) for an internal combustion engine (1) is disclosed. When the engine (1) is started, the apparatus (100) executes starting control in accordance with the stopped crank position. The control apparatus (100) includes inclination state detecting means (40,58,80), shift position detecting means (53), rotation direction determining means (40), and stopped crank position updating means (40). The shift position detecting means (53) detects whether the shift position of a transmission (30) mounted on the vehicle while the engine (1) is off is a neutral position, an advancing position, or a reverse position. The rotation direction determining means (40) determines the direction of rotation of the crankshaft accompanying rotation of the vehicle wheels (34) while the engine (1) is off. When an output signal of the crank angle sensor (50) is detected, the stopped crank position updating means (40) updates the stopped crank position, which is stored in the stopped crank position storing means (41), in accordance with the direction of rotation determined by the rotation direction determining means (40).

Fig.1





EUROPEAN SEARCH REPORT

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EP 09 00 8868

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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 28 July 2010	Examiner Aign, Torsten
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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