

Title (en)

METHOD FOR REGULATING THE FILLING OF AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN ZUR FÜLLUNGSREGELUNG EINER BRENNKRAFTMASCHINE

Title (fr)

PROCEDE DE REGULATION DU REMPLISSAGE DES CYLINDRES D'UN MOTEUR A COMBUSTION INTERNE

Publication

EP 1525381 A1 20050427 (DE)

Application

EP 03787661 A 20030714

Priority

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- DE 10234719 A 20020730

Abstract (en)

[origin: WO2004016925A1] Disclosed is a method for regulating the filling of an internal combustion engine (1) to which a combustion air mass flow is fed. Said combustion air mass flow is regulated by a first and a second actuator (8, 9) which are triggered regarding the position thereof. The second actuator (8) is disposed downstream of the first actuator (9) within the air mass flow and has a final upper position in which said second actuator (8) is open to the maximum and a final lower position in which the second actuator (8) is closed to the maximum. The actual rotational speed (N) of the internal combustion engine (1) is detected while a set point intake pipe pressure (sP) is predefined for triggering the first actuator (9). The set point intake pipe pressure (sP) is determined by means of an rpm-related characteristic map (21) in which the set point air mass flow (sMF) is not taken into account as long as the second actuator (8) is not located in the final lower position. The set point intake pipe pressure (sP) is limited to a minimum value (PMIN-V) of the intake pipe pressure, which can be obtained in the current set point air mass flow (sMF) by means of the second actuator (8) that is placed in the final upper position.

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