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(54) Title (EN): METHOD AND SYSTEM FOR RESTORING CORRECT OPERATION OF A PREFEED PUMP OF A PUMP UNIT USED TO FEED FUEL TO AN INTERNAL-COMBUSTION ENGINE

(54) Title (FR): PROCÉDÉ ET SYSTÈME PERMETTANT DE RÉTABLIR UN FONCTIONNEMENT CORRECT D'UNE POMPE DE PRÉ-ALIMENTATION D'UNE UNITÉ POMPE UTILISÉE POUR ALIMENTER EN CARBURANT UN MOTEUR À COMBUSTION INTERNE

(57) Abstract:

(EN): Method for restoring correct operation and avoiding irreversible seizing of a prefeed pump of a pump unit for fuel (1) for an internal-combustion engine (3), in which an electronic pump control unit (36) associated with the prefeed pump (7) measures the power supply current (IS) of the related electric motor (24) and the engine control unit (38) temporarily inverts the direction of rotation of the electric motor (24) if the measured phase current (IS) exceeds a predetermined threshold current value (1ST) in order to purge the prefeed pump (7) of any dust and/or waste and/or hard particles.

(FR): L'invention concerne un procédé permettant de rétablir un fonctionnement correct et éviter le grippage irréversible d'une pompe de pré-alimentation d'une unité pompe à carburant (1) pour un moteur à combustion interne (3), dans lequel une unité de commande de pompe électronique (36) associée à la pompe de pré-alimentation (7) mesure le courant d'alimentation électrique (IS) du moteur électrique associé (24) et l'unité de commande de moteur (38) inverse temporairement la direction de rotation du moteur électrique (24) si le courant de phase mesuré (IS) dépasse une valeur de courant seuil prédéterminée (1ST) afin de purger la pompe de pré-alimentation (7) de quelconques poussières et/ou déchets et/ou particules dures.

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