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(54) Title (EN): TYPE II PAIRED HYDRAULICS ENGINE BRAKE

(54) Title (FR): FREIN MOTEUR HYDRAULIQUE APPARIÉ DE TYPE II

(57) Abstract:

(EN): A hydraulic system for a rocker arm assembly having an exhaust rocker arm configured to selectively open an engine valve includes a carrier assembly configured to couple to a cylinder head of an engine, a brake plunger assembly disposed in the carrier assembly and configured to be actuated by a braking lobe of a camshaft, and a slave plunger assembly disposed in the carrier assembly and configured to be selectively hydraulically coupled to the brake plunger assembly. When the brake plunger assembly and the slave plunger assembly are hydraulically coupled, the brake plunger assembly is configured to impart movement via hydraulic fluid and the slave plunger assembly to actuate the exhaust rocker arm and open the engine valve to perform an engine braking operation.

(FR): Dans la présente invention, un système hydraulique pour un ensemble culbuteur ayant un culbuteur d'échappement configuré pour ouvrir sélectivement une soupape de moteur comprend un ensemble de support configuré pour se coupler à une culasse d'un moteur, un ensemble piston de frein disposé dans l'ensemble support et conçu pour être actionné par un lobe de freinage d'un arbre à cames, et un ensemble piston esclave disposé dans l'ensemble support et conçu pour être couplé hydrauliquement de manière sélective à l'ensemble piston de frein. Lorsque l'ensemble piston de frein et l'ensemble piston esclave sont accouplés hydrauliquement, l'ensemble piston de frein est configuré pour communiquer un mouvement par l'intermédiaire d'un fluide hydraulique et l'ensemble piston esclave est configuré pour actionner le culbuteur d'échappement et ouvrir la soupape de moteur afin d'effectuer une opération de freinage de moteur.

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Declarations:

Declaration made as applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate

Declaration made as applicant's entitlement, as at the international filing date, to claim the priority of the earlier application, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii))