

Title (en)

METHOD OF OPERATING A VALVE SYSTEM WITH RECUPERATION.

Title (de)

VERFAHREN ZUR BETÄTIGUNG EINER HUBVENTILVORRICHTUNG MIT RÜCKGEWINNUNG.

Title (fr)

PROCEDE DE COMMANDE D'UN SYTEME DE SOUPAPE AVEC RECUPERATION.

Publication

EP 0548294 B1 19951108 (EN)

Application

EP 92900062 A 19911010

Priority

- US 72913891 A 19910712
- US 9107451 W 19911010

Abstract (en)

[origin: WO9301399A1] A recuperative engine valve system (10) for an internal combustion engine. The system (10) includes an engine valve (12) having a plunger surface (16), a first means (20) for biasing the engine valve (12) towards its closed position, a source of relatively low pressure fluid (22), a source of relatively high pressure fluid (24), and a second means (28) for selectively communicating fluid between the plunger surface (16) and one of the low pressure fluid source (22) and the high pressure fluid source (24). The timing of the selective communication of low pressure fluid and high pressure fluid to the plunger surface (16) during valve displacement is controlled so as to preserve and recuperate energy.

IPC 1-7

F01L 9/02

IPC 8 full level

F01L 9/10 (2021.01)

CPC (source: EP)

F01L 9/10 (2021.01)

Citation (examination)

EP 0328193 A1 19890816 - MAGNAVOX CO [US]

Designated contracting state (EPC)

BE DE FR GB

DOCDB simple family (publication)

WO 9301399 A1 19930121; AU 9017291 A 19930211; DE 69114509 D1 19951214; DE 69114509 T2 19960704; EP 0548294 A1 19930630; EP 0548294 B1 19951108; JP 3121011 B2 20001225; JP H06501081 A 19940127

DOCDB simple family (application)

US 9107451 W 19911010; AU 9017291 A 19911010; DE 69114509 T 19911010; EP 92900062 A 19911010; JP 50068492 A 19911010