

Title (en)

Valve disabling mechanism for an internal combustion engine.

Title (de)

Vorrichtung für die Ausschaltung eines Ventils einer Brennkraftmaschine.

Title (fr)

Dispositif de mise hors d'actions d'une soupape pour moteur à combustion interne.

Publication

**EP 0396154 A2 19901107 (EN)**

Application

**EP 90110325 A 19860526**

Priority

- EP 90110325 A 19860526
- US 76396285 A 19850809

Abstract (en)

A valve disabling mechanism, which may be employed in internal combustion engines having a retarding mode of the compression-release type additionally to the normal powering mode, includes a tubular adjusting screw (310) affixed to a valve train mechanism (50), a tubular drive pin (324) coaxially disposed within the tubular screw (310) having radial ports (334) and an actuator pin (348) disposed in the tubular drive pin (324) and reciprocated in the drive pin. Locking balls (362) are disposed within the radial ports (334), which are moveable to engage the tubular driven screw (310) and the tubular drive pin (324) for conjoint movement in the normal powering mode and to disengage the tubular screw from the tubular drive pin to permit a reciprocating motion of the tubular screw relative to the tubular drive pin in order to disable or modify the normal motion of the exhaust valves in the retarding mode.

IPC 1-7

**F01L 13/00; F01L 13/06**

IPC 8 full level

**F01L 13/00** (2006.01); **F01L 13/06** (2006.01); **F02B 15/00** (2006.01); **F02B 39/00** (2006.01); **F02D 13/04** (2006.01)

CPC (source: EP)

**F01L 1/181** (2013.01); **F01L 13/00** (2013.01); **F01L 13/065** (2013.01); **F02D 13/0273** (2013.01); **F02D 13/04** (2013.01); **F01L 1/08** (2013.01)

Cited by

CN103346657A

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

**EP 0396154 A2 19901107; EP 0396154 A3 19910403; EP 0396154 B1 19930929; AT E95279 T1 19931015**

DOCDB simple family (application)

**EP 90110325 A 19860526; AT 90110325 T 19860526**