

Title (en)
VALVE DISABLING MECHANISM FOR AN INTERNAL COMBUSTION ENGINE

Publication
EP 0396154 B1 19930929 (EN)

Application
EP 90110325 A 19860526

Priority
• EP 90110325 A 19860526
• US 76396285 A 19850809

Abstract (en)
[origin: EP0396154A2] 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 13/06; F01L 13/00

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