

Title (en)
Analog carburetor.

Title (de)
Analog-Vergaser.

Title (fr)
Carburateur analogique.

Publication
EP 0037279 A1 19811007 (EN)

Application
EP 81301380 A 19810330

Priority
US 13604880 A 19800331

Abstract (en)
A fuel-air metering system functioning according to precise flow and geometrical equations. An air throttle valve (42) and fuel valve (80) are positively linked with the flow crosssectional area of each valve proportional to that of the other. Fuel pressure drop across the fuel valve is regulated in precise proportion to the pressure drop across the upstream orifice of a two orifice in series (48,50) air flow system which bypasses the air throttle (42). Careful shaping (142 143) of the air throttle (42), the bypass system orifices (48,50) the fuel valve (80) passage geometry, and the servo valve fuel regulation system (91,95,99,66,68,70) results in an accurate proportioning of fuel flow to air flow.

IPC 1-7
F02M 69/00

IPC 8 full level
F02M 3/00 (2006.01); **F02M 7/20** (2006.01); **F02M 7/22** (2006.01); **F02M 69/20** (2006.01)

CPC (source: EP)
F02M 7/22 (2013.01); **F02M 69/20** (2013.01)

Citation (search report)
GB 504217 A 19390421 - SOLEX

Cited by
EP0085987A1

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
EP 0037279 A1 19811007; **EP 0037279 B1 19850731**; BR 8107982 A 19820309; DE 3171540 D1 19850905; JP S57500523 A 19820325; MX 151719 A 19850215; WO 8102913 A1 19811015

DOCDB simple family (application)
EP 81301380 A 19810330; BR 8107982 A 19810326; DE 3171540 T 19810330; JP 50149881 A 19810326; MX 18659681 A 19810330; US 8100388 W 19810326