

Title (en)  
Intake manifold

Title (de)  
Einlasskrummer

Title (fr)  
Collecteur d'admission

Publication  
**EP 1013918 B1 20040317 (EN)**

Application  
**EP 99310372 A 19991221**

Priority  
JP 37688498 A 19981225

Abstract (en)  
[origin: EP1013918A2] An intake manifold has a plurality of branch tubes each joined by brazing in a furnace at one end to a flange on the engine side and at the other end to a surge tank on the throttle chamber side. The surge tank is separated into two pieces or a brazing side member and a non-heating side member. Branch tubes are fixed in position relative to the brazing side member by peen locking with a peening tool or the like and are then joined to the brazing side member by brazing in the furnace. The non-heating side member is not subjected to the brazing in the furnace but is joined to the brazing side member by bolts or the like. <IMAGE>

IPC 1-7  
**F02M 35/104**; F02M 35/10

IPC 8 full level  
**F02M 35/10** (2006.01); **F02M 35/104** (2006.01)

CPC (source: EP KR)  
**F02M 35/10078** (2013.01 - EP); **F02M 35/10144** (2013.01 - EP); **F02M 35/10327** (2013.01 - EP); **F02M 35/1036** (2013.01 - EP);  
**F02M 35/104** (2013.01 - KR); **F02M 35/112** (2013.01 - EP); **F05C 2225/08** (2013.01 - EP)

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 1013918 A2 20000628**; **EP 1013918 A3 20001018**; **EP 1013918 B1 20040317**; DE 69915573 D1 20040422; DE 69915573 T2 20041230;  
JP 2000192866 A 20000711; JP 3395060 B2 20030407; KR 100524206 B1 20051026; KR 20000048348 A 20000725;  
MX PA99011566 A 20040810; TW 491928 B 20020621

DOCDB simple family (application)  
**EP 99310372 A 19991221**; DE 69915573 T 19991221; JP 37688498 A 19981225; KR 19990060723 A 19991223; MX 9911566 A 19991210;  
TW 88122512 A 19991221