

Title (en)  
V-type internal combustion engine for vehicle

Title (de)  
Fahrzeuginnenkraftmaschine in V-Bauart

Title (fr)  
Moteur à combustion interne à cylindres en pour un véhicule

Publication  
**EP 0987414 B1 20030806 (EN)**

Application  
**EP 99116978 A 19990827**

Priority  
JP 26069598 A 19980914

Abstract (en)  
[origin: EP0987414A2] Object: To provide a V-type internal combustion engine for a vehicle, which is capable of connecting a primary transmission unit, a starting transmission unit, first and second timing transmission units, and a generator to a crank shaft in a reasonable layout, thereby improving the assembling characteristic and the maintenance characteristic and maintaining a good balance in weight between right and left sides of a vehicular body when the engine is mounted on the vehicle. Solving Means: First and second timing transmission units 461 and 462 adjacent to each other in the axial direction, and a generator 30 adjacent to the outer side of the first and second timing transmission units 461 and 462 are connected to one end portion, projecting outwardly from a first journal 17, of a crank shaft 15, and a primary transmission unit 54 and a starting transmission unit 94 are connected to the other end, projecting outwardly from a second journal 18, of the crank shaft 15. <IMAGE>

IPC 1-7  
**F02B 75/22**; F02B 61/00; F02B 61/02

IPC 8 full level  
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