

Title (en)

Throttle shaft assembly and method of attachment of said shaft to a throttle body

Title (de)

Drosselklappenwellenzusammenbau und Verfahren zur Befestigung dieser Welle an einem Drosselklappenstutzen

Title (fr)

Ensemble d'arbre de papillon et procédé de fixation de cet arbre à un corps de papillon

Publication

**EP 1083313 A3 20010905 (EN)**

Application

**EP 00119112 A 20000904**

Priority

US 15279399 P 19990908

Abstract (en)

[origin: EP1083313A2] A method and apparatus is provided for the attachment of a throttle shaft to a throttle body. A throttle shaft, a spring, and a cap retainer, are temporarily assembled as a throttle shaft subassembly. A set of locking members extend from the cap retainer to engage a set of locking surfaces adjacent the throttle shaft to retain the spring in tension. The cap retainer fits onto a boss extending from the throttle body and is lockable thereto by a set of fingers which are received into engagement recesses located on the boss. As the shaft subassembly is guided into the throttle body, the cap retainer is rotated by the engagement surfaces and the locking members are disengaged from the locking surfaces to at least partially unload the spring to mount the shaft. <IMAGE>

IPC 1-7

**F02D 9/02**; F02D 9/10

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [A] US 5368283 A 19941129 - PAVLIN ROBERT J [US]
- [A] GB 2248272 A 19920401 - WEBER SRL [IT]
- [A] EP 0831215 A1 19980325 - HADSYS INC [JP]
- [A] US 5168852 A 19921208 - MORIGUCHI TERUHIKO [JP], et al

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DOCDB simple family (publication)

**EP 1083313 A2 20010314**; **EP 1083313 A3 20010905**; **EP 1083313 B1 20020807**; DE 60000308 D1 20020912; DE 60000308 T2 20030515

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