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

(57) 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.

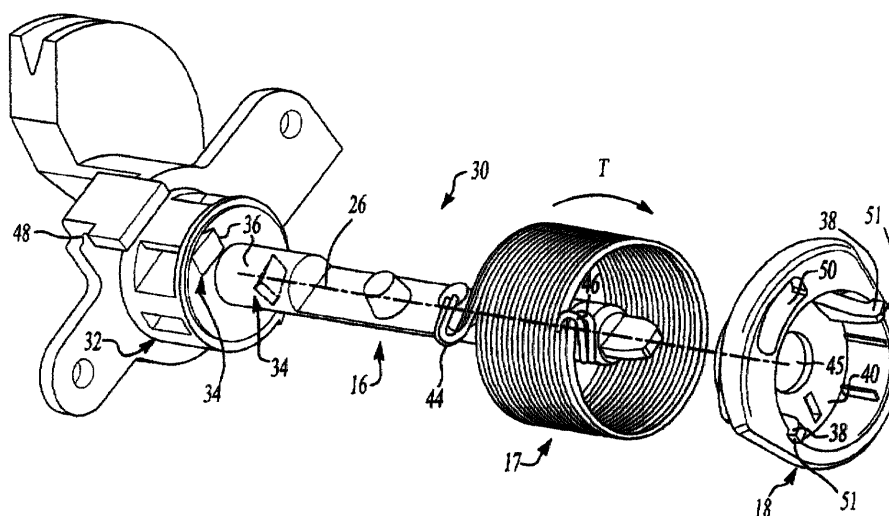


Fig-2

EP 1 083 313 A3



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EUROPEAN SEARCH REPORT

Application Number
EP 00 11 9112

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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 13 July 2001	Examiner Van Zoest, A
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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