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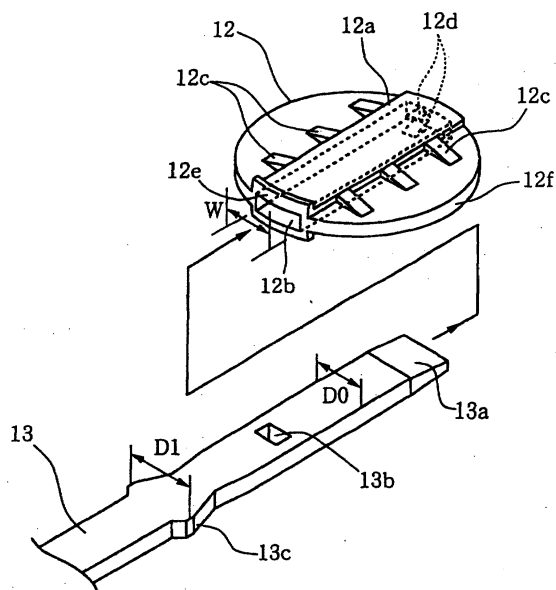
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(54) Structure for coupling shaft and valve in throttle body

(57) A structure for coupling a throttle valve (12) and a throttle shaft (13) in a throttle body reliably receives thrust force applied to the throttle shaft (13), and assures smooth rotation of the throttle shaft (13) and a wide open area of a bore when the throttle valve (12) is fully opened.

In this structure, the throttle valve (12) is in the shape of a disc, and the throttle shaft (13) is in the shape of a plate parallel to the throttle valve (12), and is formed with a recess (13e). The throttle valve has a through-hole (12b), and projections (12d) to be fitted in the recess (13e) of the throttle shaft (13). Further, a thrust surface (12e) is formed at an entrance of the through-hole (12b), and receives thrust force applied to the throttle shaft (13) when brought into contact with an inner surface of a bore.

Fig. 2





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EUROPEAN SEARCH REPORT

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The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 26 June 2002	Examiner Marsano, F
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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