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(54) Title: NOISE DAMPENING MODULE FOR A VACUUM MODULATOR IN A MOTOR VEHICLE

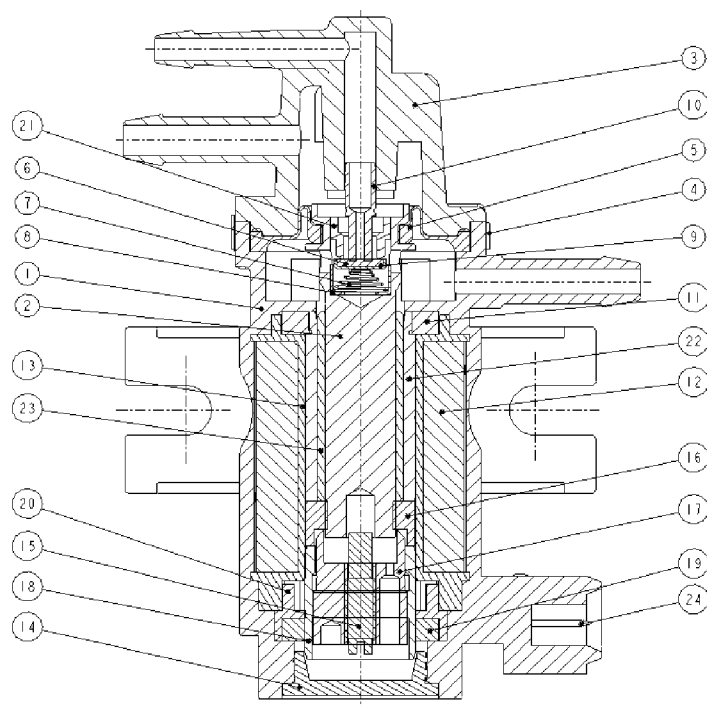


FIG.2

(57) Abstract: The present invention relates to a noise dampening module for a vacuum modulator in a motor vehicle. More particularly, this invention relates to an improved design of vacuum modulator or electronic vacuum regulating valve (EVRV) wherein the said noise dampening module has been implemented by using sponge or alike material. There is always an air gap between the plunger and inner core of the vacuum modulator. This air gap creates noise due to metal to metal contact and noise intensity increases further during vehicle off-on condition. This air gap is eliminated by implementing a noise dampening module between the plunger and the inner core.



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Declarations under Rule 4.17:

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- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))
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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

IPO Internal Database, Fampat

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4469079 A (COOK John E) Sep 4, 1984 Col 1, line 56 - Col 2, line 45; figure 1 -----	1-6
Y	EP 1184207 B1 (SUMITOMO RUBBER INDUSTRIES LTD.) Jun 18, 2008 Para [0018], [0019] -----	2
Y	US 2910730 A (RISCH Thomas A) Nov 3, 1959 Col 2, line 17 - line 26 -----	2
Y	US 6058913 A (BUSATO Murray F et al.) May 9, 2000 Col 5, line 14 - line 31 -----	1, 3-6
Y	US 3727516 A (LAKOVITS J et al.) Apr 17, 1973 Abstract; figure 2, 3	1, 3-6

☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

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Information on patent family members

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