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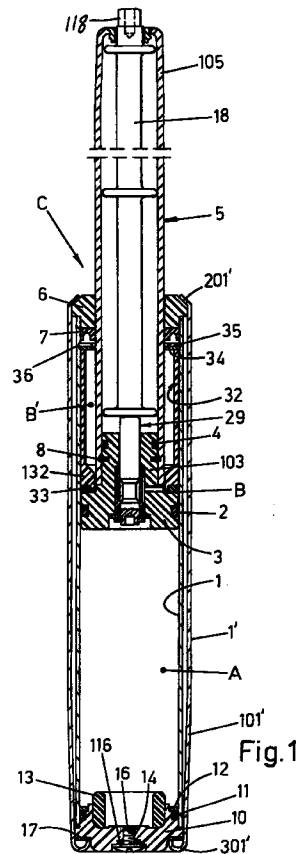
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(54) Compressed-air column, cushioned and turning, particularly suitable for office chairs

(57) The column is comprised of an assembly with cylinder (1) and piston (3), the piston being integral with one end of the stem (5), the free ends of the cylinder and of the stem prearranged with a suitable conical shape for the coupling with correspondent seats of the chair base and seat. The stem is crossed by a control rod (18) cooperating with a drawer valve (29), which intercepts the communication between the pressure chambers (A-B) of the cylinder-piston assembly, the chambers containing compressed air under low pressure. The column is equipped with means (32, 37) which stop the extension travel of its stem (5) within such limits that the volume and the length of the pressure chamber with the smaller section (B) do not decrease below predetermined minimum values, which ensure for the assembly the maintenance of the necessary features of bending strength and which prevent cavitation phenomena when the column is suddenly loaded by the weight of the person sitting down. According to a preferred form of embodiment, the cylinder (1) has a constant diameter the whole of its length and it is coated with a tubular jacket (1'=) whose lower end (101'=) is shaped into a cone for the coupling with the seat of the chair base.



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EUROPEAN SEARCH REPORT

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Place of search THE HAGUE		Date of completion of the search 17 September 1999	Examiner Joosting, T		
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>					

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