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(54) **Rotating spray apparatus**

(57) Apparatus for supplying the product to be sprayed to spraying machines of the rotating type, having guns mounted on a carousel or on a transfer device, in which the ends of the pipes (4) supplying the spray guns (G) are connected to a header (3) provided with a vertical supply tube (1) which is made to rotate by suitable means (2) in a synchronised manner and in the same direction as the gun assembly of the said carousel or transfer device and the top end of this supply tube (1) is connected to at least one flexible pipe (14) which, after a short curved and upward trajectory (414), is arranged horizontally with a middle section (314) rotatably supported by special means (15) and which with the other end of the curved

and downward section (214, 114) is connected to a hollow and vertical hub (7) in turn connected to the delivery outlet of a pump (9) of any suitable type, arranged vertically on a vertical support (8) integral and coaxial with the said hub (7) which is made to rotate by special means at the same speed as the said supply tube (1), but in the opposite direction, while with its bottom axial draw-off the said pump (9) is immersed inside the container of paint (10) which is fixed, all of which in such a way that the said flexible pipe (14) rotates freely and without twisting about its longitudinal axis and is able to supply the paint or other product to the guns of the spraying machine, without the intervening arrangement of rotating joints and without the problems associated with them.

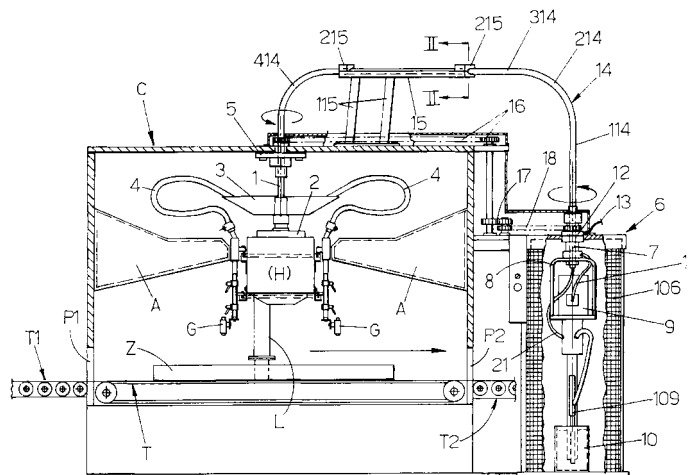


Fig.1



## EUROPEAN SEARCH REPORT

Application Number  
EP 06 11 4784

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			TECHNICAL FIELDS SEARCHED (IPC)
			B05B F16L
The present search report has been drawn up for all claims			
Place of search <b>Munich</b>		Date of completion of the search <b>3 November 2009</b>	Examiner <b>Endrizzi, Silvio</b>
<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 ..... &amp; : member of the same patent family, corresponding document</p>			

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EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
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