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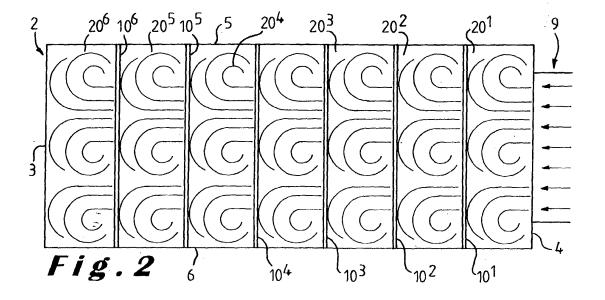
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### (54) Air distribution system for paint spray booth

(57) The present invention relates to an air distribution device (2) for supplying an air flow to a paint spray booth (1), the air distribution device (2) comprising a housing (11) having opposed first (3) and second (4) transverse side walls and opposed first (5) and second (6) longitudinal side walls, an upper wall (7) and a bottom wall (8), the bottom wall (8) allowing for an air flow from the housing (11) to the paint spray booth (1). At least one of the side walls of the housing (11) comprises an air inlet (9). n partition walls (10) divide the housing (11) into n+1

compartments (20). The partition walls (10) extend in height direction of the housing (11) over part of the height thereof. The partition walls (10) are provided for guiding the air flow from the air inlet (9) throughout the housing (11) and for distributing the air flow over the compartments (20) in such a way that each compartment (20) allows for an air flow to the paint spray booth (2) which approximately corresponds to (the total air flow multiplied by (bottom surface area of the compartment/total bottom surface area).





# **EUROPEAN SEARCH REPORT**

Application Number EP 03 44 7093

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