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### (54) Vehicle with ionizing unit for cleaning air to cabin

(57) A vehicle (1) is provided comprising a cabin (9), a conduit (2) arranged to conduct a flow of air from outside the vehicle to the cabin, and a filter unit (8) arranged to filter at least a portion of the flow of air before it enters the cabin. Further, an ionizing unit (10) is arranged in the conduit upstream of the filter unit as seen in the direction of the flow of air so as to charge particles present in the flow of air and transmit at least a major part of the charged particles towards the filter unit. The at least one collector electrode (11) has a tube-like shape arranged to conduct at least a portion of the flow of air, and the at least one emitter electrode (12) is arranged at a central axis of the tube-like shaped collector electrode, whereby a more uniform ionization field is provided.

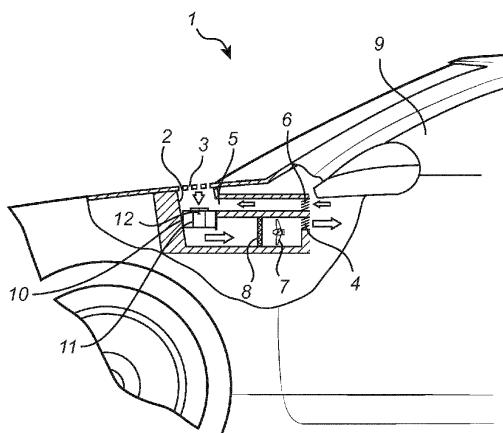


Fig. 1