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(54) **VARIABLE TRAJECTORY SIDE CURTAIN AIRBAGS**

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See application file for complete search history.

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(57) **ABSTRACT**

Side curtain airbag assemblies for use inside motor vehicles and methods of preparing airbag assemblies are described herein that allow for the deployment of a curtain with varying trajectory. The curtain may be attached to an inflator that is configured to rapidly inflate the curtain from a folded condition to a deployed condition upon signals generated from an activation event, such as a collision or vehicle roll-over. The trajectory of the curtain can be defined as the direction of the curtain being inflated in relation to other components of a vehicle. Different portions of the curtain may have different fold configurations, allowing for tuning of the trajectory upon deployment of each distinct portion of the curtain.

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