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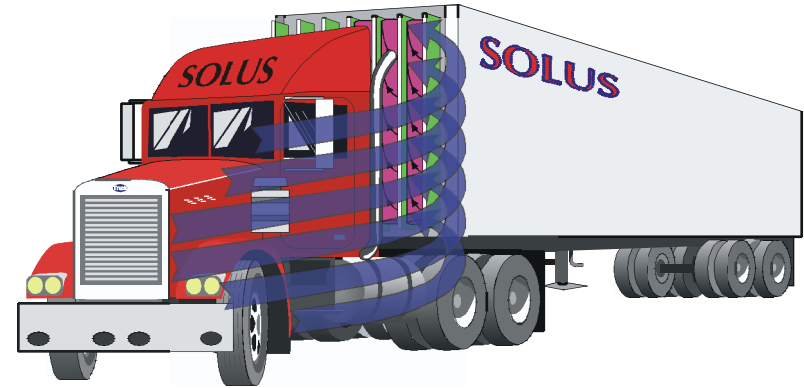
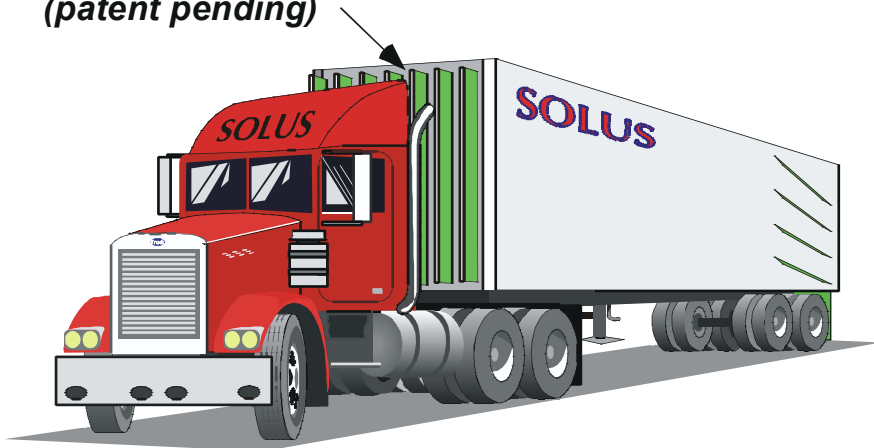


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Inventions and Solutions on Demand

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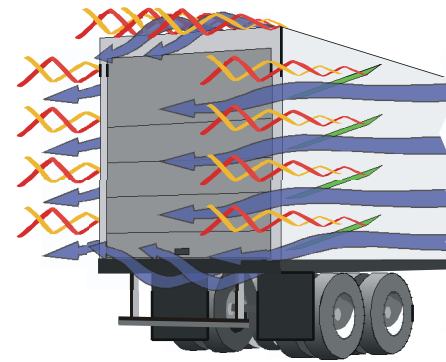
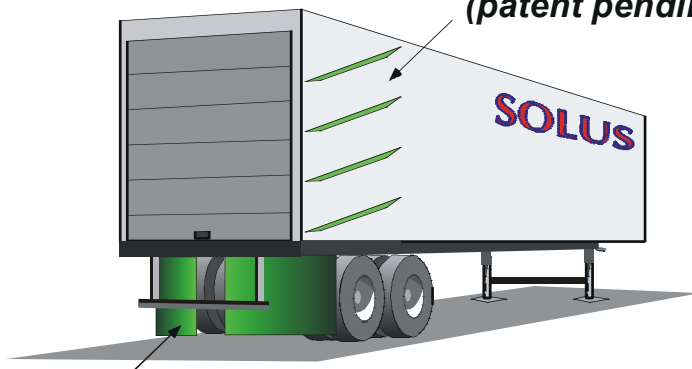
**Cross-Flow Vortex Strips
(patent pending)**



Cross-Flow Vortex Strips (patent pending)

Creates a series of trapped vortices, orientated vertically on the front face of the trailer. The trapped vortices decrease the pressures acting on the trailer front face, and reduce drag.

**Vortex Strakes
(patent pending)**

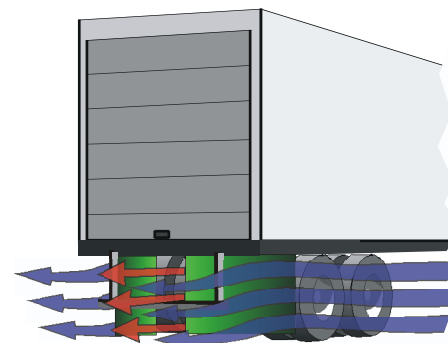


**Vortex Strakes
(patent pending)**

Strakes on the top and sides of the trailer generate vortices, which entrain momentum into the wake region. The resulting upwash and inwash flows increase base pressure and reduce drag.

**HiMoM Flaps
(patent pending)**

**HiMoM Flaps
(patent pending)**
High Momentum Mud Flaps



The HiMoM concept collects the low energy, unsteady flow from under the trailer and redirects it to the center of the base region.

Flow exiting between the flaps is directed in the same direction as the outer, high momentum flow and energizes the trailer wake.

The mass and energy addition into the wake stabilizes the wake and reduces the turning required by side and top flows. The base pressure is increased, and drag is reduced.