



# Mitsubishi patents design to eliminate SUV tailgate rattles

The key innovation comes from how the inner structure is reinforced

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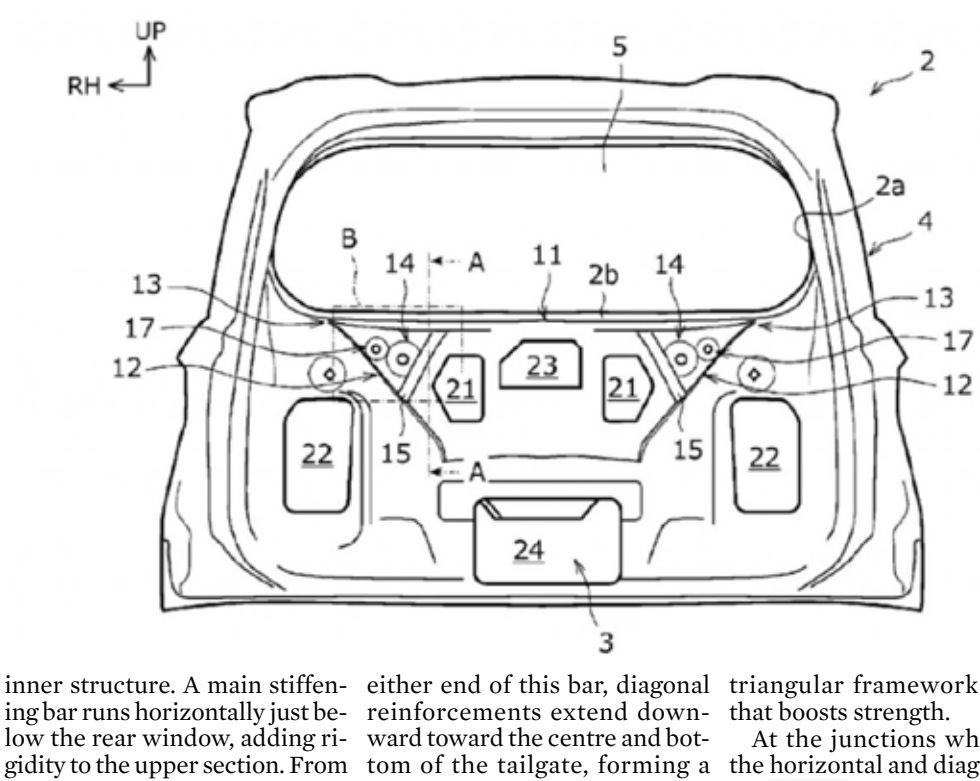
Rattles from the rear of SUVs are a familiar annoyance, especially on bumpy or uneven roads. While owners often try quick fixes, they rarely last. Now, Japanese carmaker Mitsubishi seems to have found a more permanent solution.

A recent patent filing reveals a reinforced tailgate design with an integrated vibration damper, aimed at making the rear door stronger, quieter, and more refined.

The patent describes the tailgate in simple terms:

- Outer panel – the painted surface visible from the outside.
- Inner panel – the structural frame visible when the tailgate is open.
- Rear glass – the back window.

The real innovation lies in the



supports meet, Mitsubishi has positioned mounting points for a dynamic damper. This component absorbs and dissipates vibrations, reducing flex and eliminating rattles, giving the tailgate a tighter, more premium feel.

By combining reinforcement with vibration control, Mitsubishi's design

sign tackles both strength and noise at once. The result is not only improved durability but also a more refined driving experience—whether on rough roads or at highway speeds, where wind and body flex can often make a tailgate chatter.

If brought into production, this technology could finally make rattling SUV tailgates a thing of the past.



## origin of SUVs

The term “SUV” (Sport Utility Vehicle) became popular in the 1980s, but vehicles with SUV-like traits existed much earlier. The Jeep Wagoneer (1963) is often considered one of the first modern SUVs, combining 4x4 capability with car-like comfort



## Fuel Consumption

SUVs tend to be less fuel-efficient than smaller cars, and studies suggest that SUVs were the second largest contributor to the global rise in CO2 emissions between 2010 and 2018 (after the power sector).

## Electric SUVs

The future is shifting too – some of the best-selling EVs worldwide are SUVs, like the Tesla Model Y, which recently became the world's top-selling car overall.



## Pontiac Aztek: the car often dubbed the world's ugliest

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The title of the world's ugliest car often goes to the Pontiac Aztek, produced from 2000 to 2005. Designed as a versatile crossover, it promised practicality with features like removable seats and even a built-in tent option. However, its awkward proportions, oversized cladding, oddly split headlights, and bulky stance made it widely ridiculed. Despite its poor sales and negative reception, the Aztek has gained a cult following in recent years, partly due to its appearance in the TV show Breaking Bad. Today, it is remembered as both a design misstep and a quirky icon in automotive history.



## The most beautiful car ever made

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Many enthusiasts and automotive experts often crown the Jaguar E-Type (produced between 1961 and 1975) as the world's most beautiful car.

- Enzo Ferrari himself famously called it “the most beautiful car ever made”.
- Its long bonnet, curves, and low-slung profile made it an instant design icon.

- Beyond beauty, it was also revolutionary: capable of speeds over 150 mph, yet offered at a fraction of the price of rivals.
- Today, the E-Type is celebrated not just as a classic sports car, but as a timeless piece of art on wheels.



## Mahindra unveils four new SUV concepts on Independence Day

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India's Mahindra & Mahindra marked Independence Day by unveiling four new SUV concepts, including the Vision T, Vision S Concept

Vision X and Vision S. All three are based on the company's new NU\_1Q modular platform, which supports internal combustion, hybrid and electric powertrains.

The Vision T Concept, an evolution of the Thar.e shown in 2023, previews the next-generation Thar. It carries a rugged, boxy silhouette in-

spired by the Jeep Wrangler and Land Rover Defender, featuring a black fascia with a split grille, square LED headlamps, flared arches and a tailgate-mounted spare wheel. The Vision X Concept hints at a future crossover, sporting a slim front fascia with

Mahindra's Twin Peaks logo, crisp LED lights, squared-off wheel arches, flush door handles, two-tone alloys and a coupe-like rear with a raked windshield, roof spoiler and

full-width taillamps.

The Vision S Concept, showcasing Mahindra's new “Heartcore” design philosophy, adopts a bold two-tone look with an upright fascia, L-shaped headlamps, a rectangular grille with LED inserts, short rear overhang, roof

rails and a tailgate-mounted spare wheel flanked by distinctive L-shaped taillights.

With these concept SUVs, Mahindra signals its intent to blend rugged design with electrified flexibility as it prepares for the next generation of utility vehicles.

