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Topic: Eliminate battery fires and mass recalls

Abstract:

Safety challenges continue to limit the commercial viability of next-gen battery cells, preventing widespread adoption of EVs and other battery-powered applications. Impervio Separator offers a solution. Our proprietary separator technology provides unprecedented safety advancements by suppressing the growth of dendrites and enabling early fault detection from within a cell itself. The result? Shutting down fires before they occur.

Impervio Separator starts at the source by blocking dendrite propagation within the battery, even during overcharging. And, by continuously monitoring the cell, Impervio Separator can:

1. Detect a potential short before it occurs
2. Enable a safe discharge and shutdown of the individual battery cell through the battery management system

This precision also reduces the need for mass recalls by pinpointing defective products. Compatible across chemistries, including lithium-ion, lithium-metal and semisolid LiForever cells, Impervio Separator redefines what it means to deliver safe, reliable batteries to the world.