

An Elevated Temperature Power Inverter

Disclosure Number

200902334

Technology Summary

Proposed is a fully-integrated solution using a process that will allow the entire inverter system to be integrated onto a single chip including electrically isolation output devices, and other necessary support electronics. The approach incorporates electrical isolation, drivers, and support electronics into a single, integrated chip. This new fully integrated approach should allow common-mode voltages of hundreds of volts making it highly useful for elevated-temperature automotive inverters. The proposed fully integrated system should also be compatible with known substrate materials as well as other candidate materials under investigation.

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