

A Hybrid-Auxiliary Power Unit for Class 8 Sleeper Cabins

Disclosure Number

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Technology Summary

The invention relates to energy reduction and specifically to technologies for reducing fuel usage in heavy trucks. A conventional APU uses a small diesel engine that powers an alternator to provide power and can power the A/C compressor either electrically or mechanically depending on the type of compressor used. Using a high efficiency h-APU (hybrid APU) would be an engine integrated system that would allow elimination of overnight idling.

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