

## Vehicle Air Conditioning Compressor Control Strategy in Hybrid APU

### Disclosure Number

201503582

### Technology Summary

The invention relates to energy reduction and specifically to technologies for reducing fuel usage in heavy trucks. As fuel costs become a greater concern for line haul fleet managers, a need has arisen for systems that allow drivers to have air condition without idling the engine overnight. This, paired with increasingly more stringent emissions laws, begins to highlight the need for such technologies in the near future for the class 8 truck market. Hybrid auxiliary power units are one of the technologies that can tackle these problems. Provided is a control strategy for use in a prototype auxiliary power unit that allows for the elimination of overnight idling while still providing adequate cooling for the driver overnight.

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