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(71) Applicant: **CARRIER CORPORATION** [US/US];
17900 Beeline Highway, Jupiter, Florida 33478 (US).

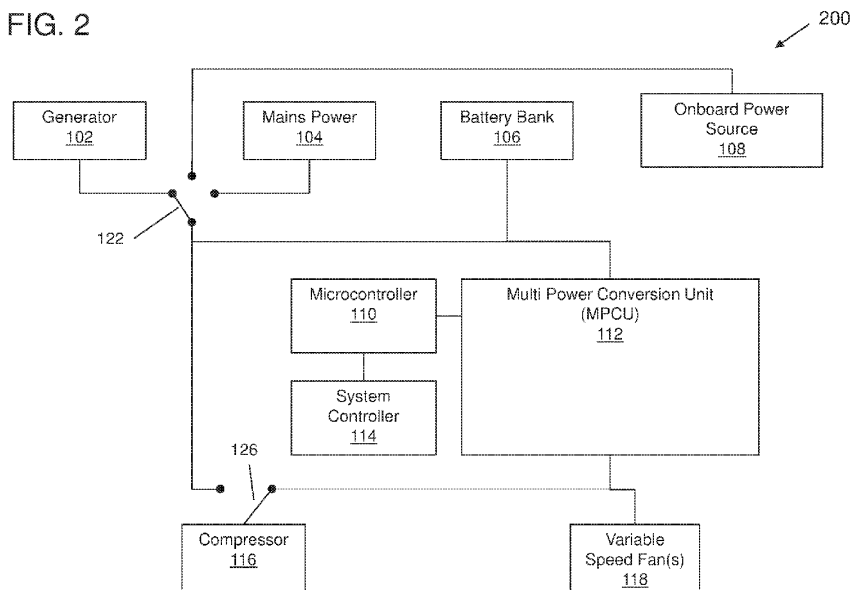
(72) Inventors: **ARNEDO, Luis**; 411 Silver Lane, East Hartford, Connecticut 06108 (US). **ADETOLA, Veronica**; 411 Silver Lane, East Hartford, Connecticut 06108 (US).

(74) Agent: **POWELL, Michael**; Cantor Colburn LLP, 20 Church Street, 22nd Floor, Hartford, Connecticut 06103 (US).

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(54) Title: MULTI POWER CONVERTER UNIT FOR A TRAILER REFRIGERATION UNIT

FIG. 2



(57) Abstract: A trailer refrigeration unit is provided. Aspects include a plurality of power sources, wherein the plurality power sources are selectively coupled to a power converter and at least one compressor. The power converter is coupled to at least one fan and is selectively coupled to the at least one compressor. A microcontroller circuit is included and is configured to selectively operate the trailer refrigeration unit in one of a plurality of modes based on an environmental parameter within the trailer refrigeration unit. The plurality of modes includes a first mode where the at least one compressor and at least one fan are powered by the power converter and a second mode where the at least one compressor is powered by at least one of the plurality of power sources.

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