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12 February 2019

Our Ref: 535 CS-AU

Subject: Response to Examination Report
Patent Application No.: 2017210650
In the Name of: LAA Industries Pty Ltd

Dear Sir,

This is a follow-up to the response to the second examination report.

Below are comments from James Waterreus, the expert witness in the related opposition of Patent Application 2017213531. Mr. Waterreus' qualifications and experience are outlined in the attached Declaration by James Waterreus dated 16 November 2018.

> I have focussed on cited reference D4 and draw your attention to the following significant differences between D4 and the LAA patent application:
>
> 1. D4 is for a different purpose - while it uses an engine, generator, ECU and AVR, D4 is differs in that it qualifies itself as for power control and uses voltage, current and power factor as the feedback signals, vs LAA in item 2 below;
>
> 2. The LAA invention drives a pump and uses water pressure, flow and / or level as the feedback signals i.e. does not use the AVR and ECU for the same purpose;
>
> 3. D4 is all about engine protection, engine optimisation and power control by adjusting an AVR and ECU whereas LAA is all about turning an engine and alternator into a variable frequency, variable voltage power supply with VSD like qualities, without needing a separate fixed speed generator as is required when a solid state VSD is used for the same purpose;
>
> 4. D4 adjusts generator voltage (via AVR) and engine speed (via ECU) over a small range to protect against damage to the engine and / or electrical equipment powered by the generator,

vs the LAA invention which varies engine speed and alternator voltage over a wide range (30 – 60 Hz) and uses process signals to govern what speed the engine runs at;

5. D4 is for equipment protection whereas the LAA invention is specifically for process control in the mining industry, instead of the traditional method of using a separately powered VSD (supplied by a fixed speed generator), a method which is up to 30% less efficient then the LAA invention;

6. The D4 algorithms in the computer / system controller are entirely different from the algorithms in the LAA computer / controller;

7. D4 could not be used for the same purpose as the LAA invention without significant additional research and changes to the BOD (Basis of Design).

Thank you for your consideration.

Yours Sincerely,

Fidel Dela Paz