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(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2022/0360153 A1**
de Swardt (43) **Pub. Date: Nov. 10, 2022**(54) **VACUUM PRESSURE IMPREGNATION
METHOD FOR INSULATION SYSTEM**(52) **U.S. CL.**
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OH (US)(57) **ABSTRACT**(72) Inventor: **Jan de Swardt**, Eustis, FL (US)(21) Appl. No.: **17/717,630**(22) Filed: **Apr. 11, 2022****Related U.S. Application Data**(60) Provisional application No. 63/186,413, filed on May
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A vacuum pressure impregnation process includes placing a room temperature coil/winding into a pressure vessel with a camera aimed at the coil/winding for inspection, and sealing the pressure vessel to draw a first vacuum level, maintained for a first duration. The coil/winding is flooded with resin and remotely monitored. A second vacuum level is maintained for a second duration while remotely monitoring. A first positive pressure level is applied for a third duration while remotely monitoring, before releasing and drawing a third vacuum level, maintained for a fourth duration while remotely monitoring. A second positive pressure level is applied for a fifth duration while remotely monitoring, before releasing pressure and removing the coil/winding from the pressure vessel.

