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(71) Applicant: **3M INNOVATIVE PROPERTIES COMPANY** [US/US]; 3M Center, Post Office Box 33427, Saint Paul, Minnesota 55133-3427 (US).

(72) Inventors: **BONIFAS, Andrew, P.**; 3M Center, Post Office Box 33427, Saint Paul, Minnesota 55133-3427 (US).
JESME, Ronald, D.; 3M Center, Post Office Box 33427, Saint Paul, Minnesota 55133-3427 (US).

(74) Agents: **DONG, Yufeng** et al.; 3M Center, Post Office Box 33427, Saint Paul, Minnesota 55133-3427 (US).

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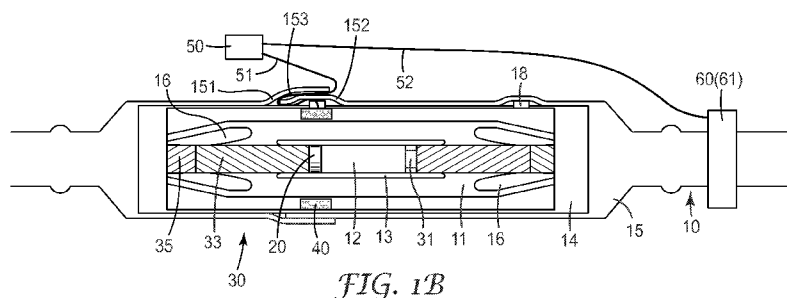
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(54) Title: MAGNETIC BASED TEMPERATURE SENSING FOR ELECTRICAL TRANSMISSION LINE



(57) Abstract: Systems and methods for sensing, measuring, or monitoring the temperature of an electrical transmission line of an electrical cable, are provided. A temperature sensitive inductor is disposed in thermal contact with the electrical transmission line. The temperature of the electrical transmission line can be sensed, measured, or monitored by measuring the inductance of the temperature sensitive inductor. Mechanisms and methods to eliminate, minimize, or account for the magnetic coupling between the current carried by the electrical transmission line and the temperature sensitive inductor are provided.