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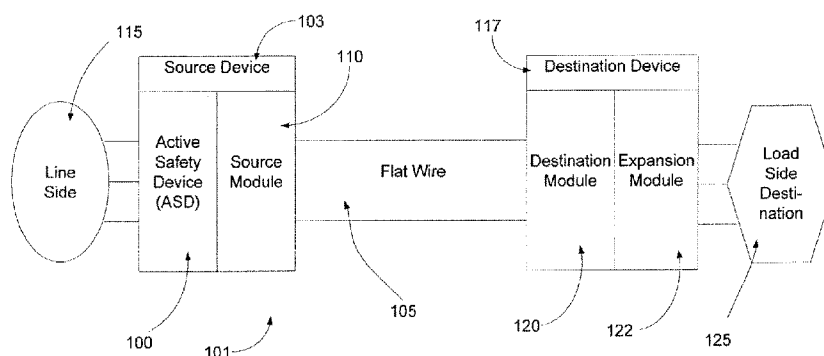
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(54) Title: ELECTRICAL SAFETY DEVICES AND SYSTEMS FOR USE WITH ELECTRICAL WIRING, AND METHODS FOR USING SAME



(57) Abstract: Disclosed are systems and methods for monitoring an electrical flat wire. An appropriate safety device is utilized to monitor the electrical flat wire. The safety device includes a line side input configured to connect a line side power source and receive an electrical power signal from the line side power source. Additionally, the safety device includes a flat wire connection configured to connect to an electrical flat wire. The safety device further includes at least one relay configured to control the communication of the electrical power signal onto the electrical flat wire. The safety device also includes a control unit configured to test the electrical flat wire for at least one of miswires, wire faults, or abnormal conditions and, based at least in part on the results of the testing, to control the actuation of the at least one relay.

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