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(54) Title: HIGH VOLTAGE CONNECTOR WITH WET CONTACTS

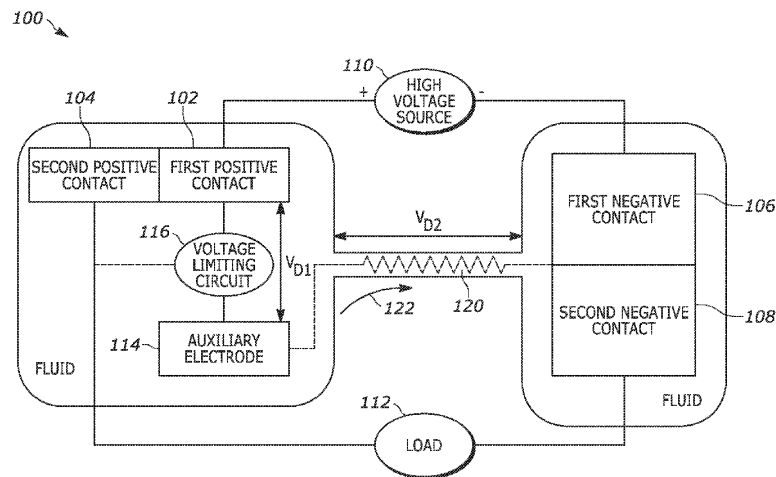


FIG. 1

(57) Abstract: A high-voltage underwater electrical connector is provided that includes first and second connectors each having a positive contact and a negative contact. The electrical connector further includes an auxiliary electrode made from a conductive material electrically connected to the first positive contact. A voltage limiting circuit electrically connects the auxiliary electrode to the positive contact. A high resistance water pathway is created between the auxiliary electrode and the negative contacts when the first and second connectors are mated while immersed in water or other corrosive environments.

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