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(54) Title: A SUPERCONDUCTOR CONNECTOR ASSEMBLY, BLADDER AND METHODS OF CONNECTION AND DISCONNECTION

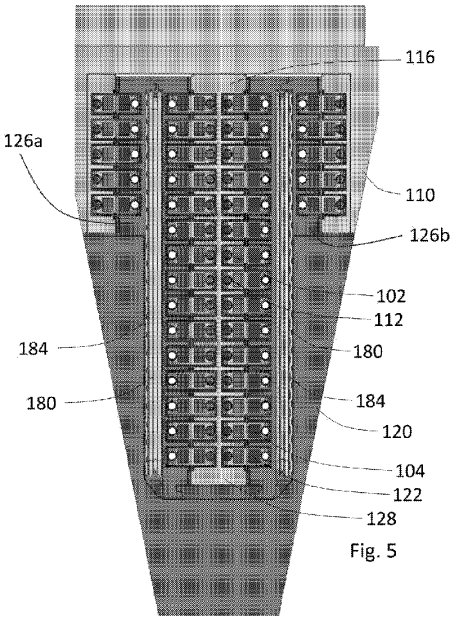

Fig. 5

(57) Abstract: According to an aspect, there is provided a superconductor connector assembly configured to electrically connect a first superconductor cable and a second superconductor cable at a cryogenic temperature, the superconductor connector assembly comprising: • at least one first superconducting cable terminal (110); • at least one second superconducting cable terminal (120); and • a bladder (180) configured to contain a liquid that expands when frozen as the superconductor connector assembly is cooled to the cryogenic temperature, wherein the bladder is positioned such that expansion of the bladder holds the first and second superconducting cable terminals together at an electrical interface therebetween.

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