

ABSTRACT

A cooling system according to an embodiment is a cooling system for a superconducting cable and a superconducting current limiter electrically connected to the superconducting cable, the cooling system including a refrigerator, a circulation passage for supplying a first refrigerant cooled by the refrigerator to the superconducting cable, and returning the first refrigerant to the refrigerator, a branch passage disposed so as to branch from the circulation passage, bypass the superconducting cable, and go through the superconducting current limiter, and a condenser disposed on the branch passage, for condensing a second refrigerant, which is vaporized in the superconducting current limiter, by cooling the second refrigerant with the first refrigerant.