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YAMAGUCHI et al.(10) **Pub. No.: US 2022/0393680 A1**(43) **Pub. Date: Dec. 8, 2022**(54) **PERSISTENT CURRENT SWITCH AND
SUPERCONDUCTING DEVICE****Publication Classification**(51) **Int. Cl.****H03K 17/92** (2006.01)**H01F 6/06** (2006.01)**H01B 12/06** (2006.01)(52) **U.S. Cl.**CPC **H03K 17/92** (2013.01); **H01F 6/06**
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A persistent current switch includes a superconducting wire, a heater, and an insulating member. The superconducting wire includes a substrate and a superconducting layer provided on the substrate. The superconducting layer includes a first principal surface facing the substrate and a second principal surface on an opposite side of the first principal surface. The heater is disposed only on the second principal surface side with respect to the superconducting layer. The insulating member is provided between the second principal surface of the superconducting layer and the heater.

