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**HASHIMOTO et al.**(10) **Pub. No.: US 2022/0377880 A1**(43) **Pub. Date: Nov. 24, 2022**(54) **SAMPLE HOLDER AND  
SUPERCONDUCTING QUANTUM  
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(57) **ABSTRACT**

A sample holder includes a base comprising a support structure and a printed circuit board (PCB) in contact with the base. The PCB has a through hole. The PCB has a cavity in at least a part of the base below the through hole. The support structure that supports a surface of a chip and is electrically connected to the base. The support structure is disposed in the cavity. At least a part of the section supporting the chip in the support structure is not parallel to the back surface of the chip.

