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(71) Applicant: IQM FINLAND OY [FI/FI]; Keilaranta 19,
02150 Espoo (FI).

(72) Inventors: OCKELOEN-KORPPI, Caspar; c/o IQM
Finland Oy, Keilaranta 19, 02150 Espoo (FI). LI, Tianyi; c/
o IQM Finland Oy, Keilaranta 19, 02150 Espoo (FI). LIU,
Wei; c/o IQM Finland Oy, Keilaranta 19, 02150 Espoo (FI).
SEVRIUK, Vasili; c/o IQM Finland Oy, Keilaranta 19,
02150 Espoo (FI). NAARANOJA, Tiina; c/o IQM Fin-
land Oy, Keilaranta 19, 02150 Espoo (FI). JENEI, Mate;
c/o IQM Finland Oy, Keilaranta 19, 02150 Espoo (FI).
GOETZ, Jan; c/o IQM Finland Oy, Keilaranta 19, 02150
Espoo (FI). TAN, Kuan Yen; c/o IQM Finland Oy, Keila-

ranta 19, 02150 Espoo (FI). MÖTTÖNEN, Mikko; c/o
IQM Finland Oy, Keilaranta 19, 02150 Espoo (FI). CHAN,
Kok Wai; c/o IQM Finland Oy, Keilaranta 19, 02150 Es-
poo (FI).

(74) Agent: PAPULA OY; P.O. Box 981, 00101 Helsinki (FI).

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(54) Title: THREE-DIMENSIONAL SUPERCONDUCTING QUBIT AND A METHOD FOR MANUFACTURING THE SAME

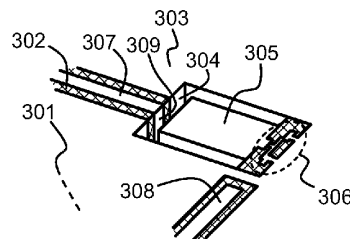


Fig. 3

(57) Abstract: A three-dimensional superconducting qubit comprises a structural base (301) comprising one or more insulating materials, and superconductive patterns (305, 501) on surfaces of said structural base (301, 505). Said superconductive patterns (305, 501) form at least a capacitive part and an inductive part of the three-dimensional superconducting qubit. A first surface of said surfaces of said structural base defines a first plane and a second surface of said surfaces of said structural base defines a second plane, said second plane being oriented differently than said first plane. At least one superconductive pattern (305, 501) of said superconductive patterns extends from said first surface to said second surface.

[Continued on next page]

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