

Title (en)
QUBIT ELEMENT

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QUBIT-ELEMENT

Title (fr)
ÉLÉMENT À BITS QUANTIQUES

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Application
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Abstract (en)
[origin: WO2022262933A1] The invention relates to a qubit element (1) comprising: a quantum well structure (2), within which a quantum well (3) is formed along a first direction (x); an electrode assembly (4) which is arranged spaced apart from the quantum well structure (2) in the first direction (x) and which is designed to reduce a movement of a charge carrier in the quantum well (3) in and against a second direction (y) and in and against a third direction (z), in order to form a quantum dot (5), wherein the first direction (x), the second direction (y) and the third direction (z) are each perpendicular to one another in pairs; and a back gate (14) which is arranged spaced apart from the quantum well structure (2) against the first direction (x).

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