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Sutardja(10) **Pub. No.: US 2023/0230764 A1**(43) **Pub. Date: Jul. 20, 2023**(54) **OFFSET TRANSFORMER STRUCTURE**(71) Applicant: **Sehat Sutardja**, Las Vegas, NV (US)(72) Inventor: **Sehat Sutardja**, Las Vegas, NV (US)(21) Appl. No.: **18/094,292**(22) Filed: **Jan. 6, 2023****Related U.S. Application Data**

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(2013.01); **H01F 27/292** (2013.01)(57) **ABSTRACT**

A transformer comprising a first signal path in a first plane or layer and a second signal path in the same plane or layer. The second signal path is offset in a diagonally direction in relation to the first signal path, such that the first signal path and the second signal path are in proximity to establish electric-field coupling between the first signal path and the second signal path. A jumper, located in a second plane, is electrically connected to either the first signal path or the second signal path through vias that extend from the first plane to the second plane. The jumper prevents electrical contact between the first and the second signal path at locations where the first and the second signal path would otherwise intersect on the first plane. The shape of the first and second signal paths may be square or rectangular, or both.

