

**Field effect transistor structure (Technion)**

**code:** ENG-1682

A novel transistor design is proposed, the statistical transistor, which through a single additive step can overcome the problems associated with the crystals grain boundaries and the accompanying non-uniformity. Conducting islands are deposited on or below an assembly of organic crystals, thereafter a continuous electronic path is formed and the device operates as single crystal transistor. The conducting island pattern does not require any alignment and hence is compatible with printing and roll-to-roll manufacturing.

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