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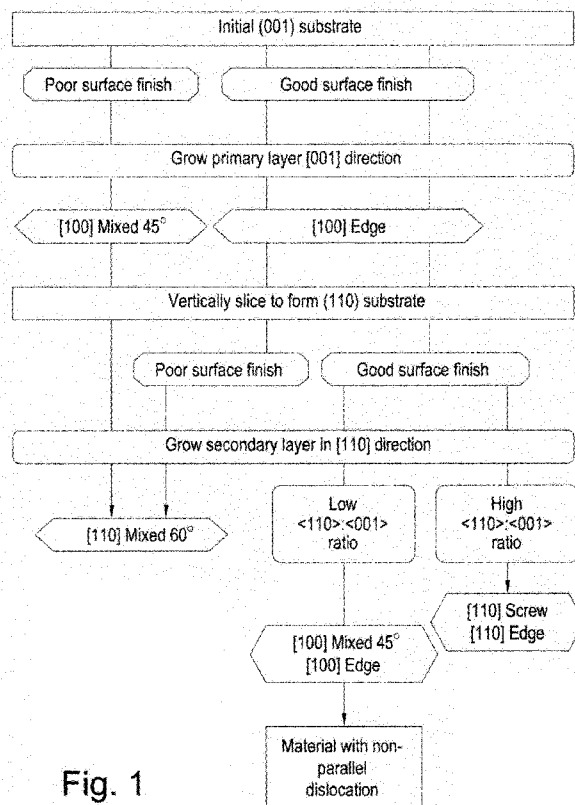
(54) **Title:** DISLOCATION ENGINEERING IN SINGLE CRYSTAL SYNTHETIC DIAMOND MATERIAL

Fig. 1

(57) **Abstract:** A single crystal CVD synthetic diamond layer comprising a non-parallel dislocation array, wherein the non-parallel dislocation array comprises a plurality of dislocations forming an array of inter-crossing dislocations, as viewed in an X-ray topographic cross-sectional view or under luminescent conditions.



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