

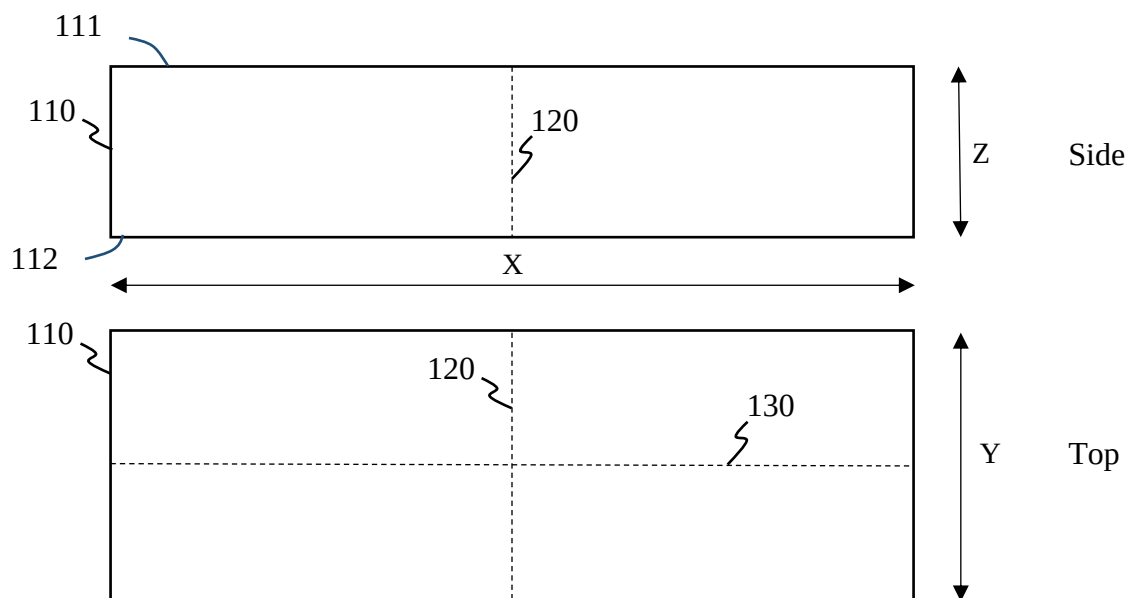
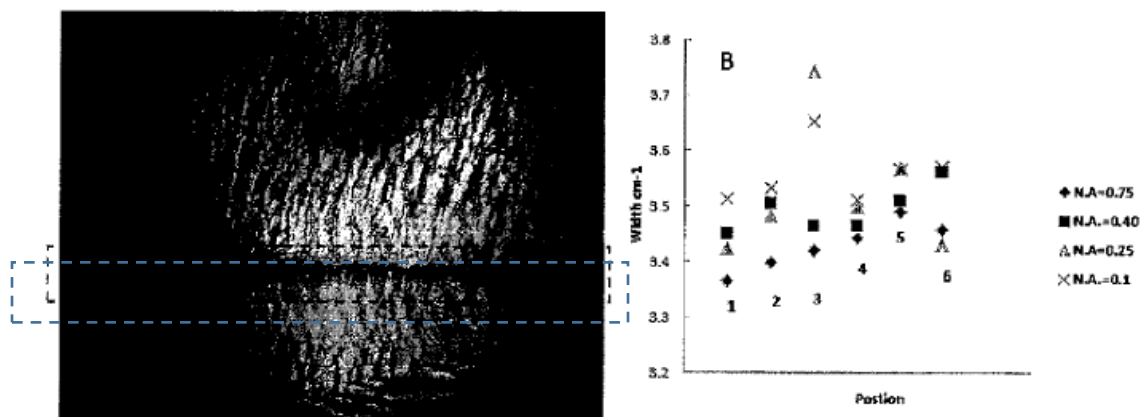


FIG. 1: Top and side views of a grown diamond



**FIG. 2:** (A) Morphology of the growth layer that had developed across the boundaries of two underlying substrates with (100) sides. (B) Spatially resolved line width of the first order Raman peak of diamond ( $\lambda_{\max}=1332\text{cm}^{-1}$ ) with respect to the 6 spots depicted in A.

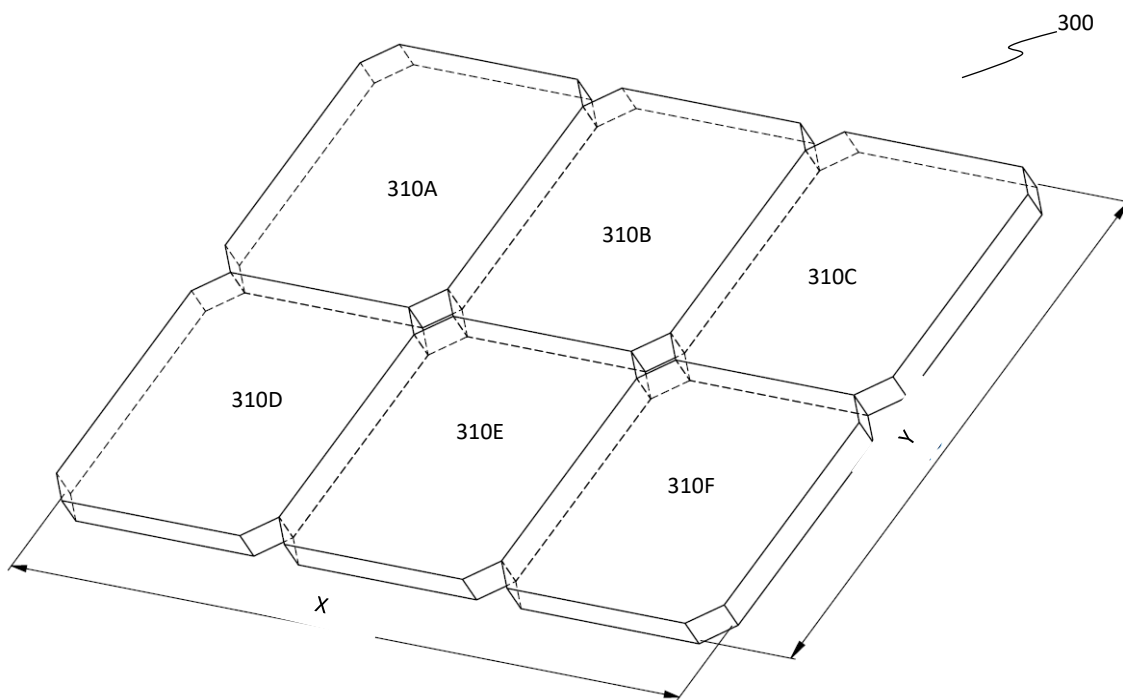


FIG. 3: A multi-array single crystal diamond substrates

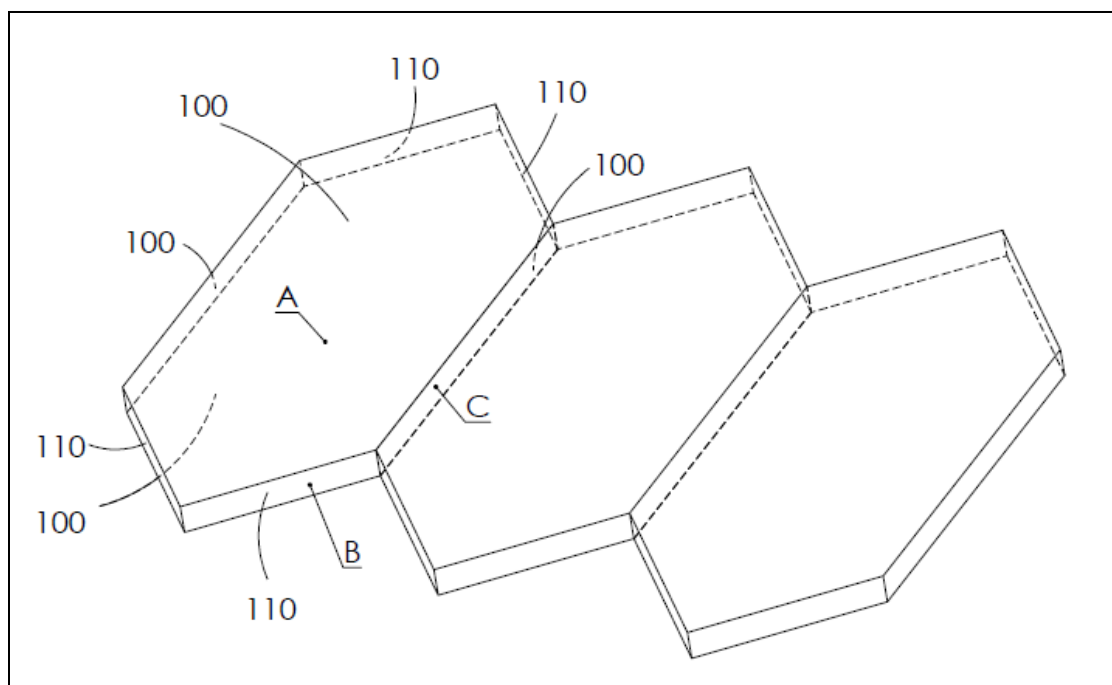


FIG. 4: A single-array single crystal diamond substrates

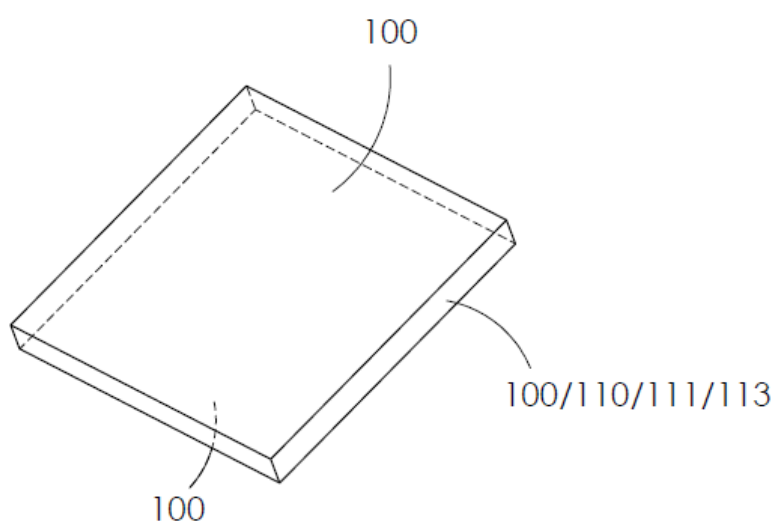


FIG. 5: A single crystal diamond substrate

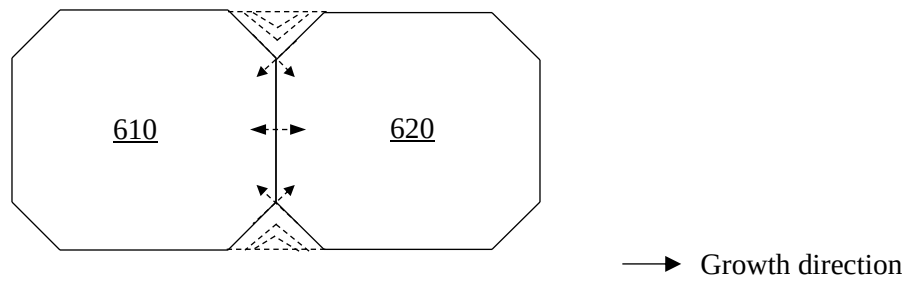
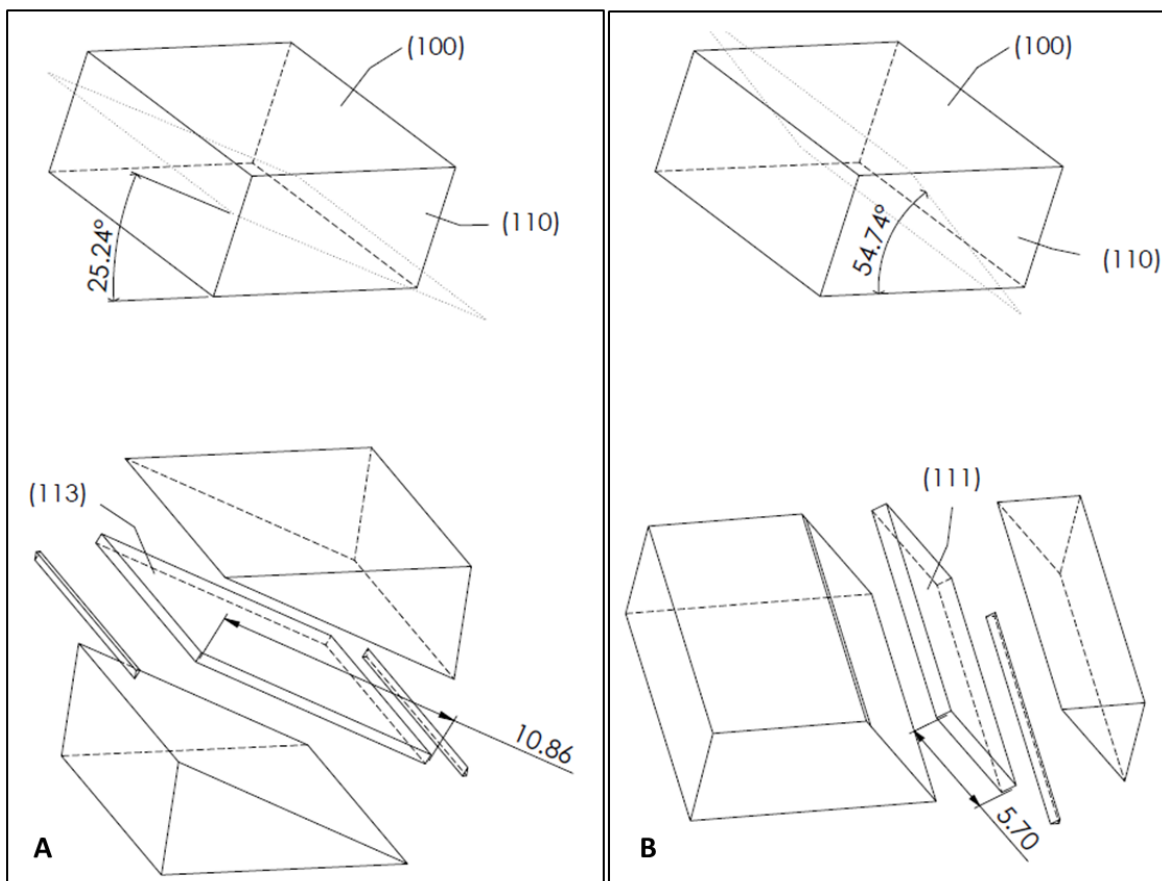


FIG. 6: Cross-sectional view of diamond growth occurring in a one-dimensional array



FIGS. 7A and 7B: Large {111} and {113} oriented diamond substrates

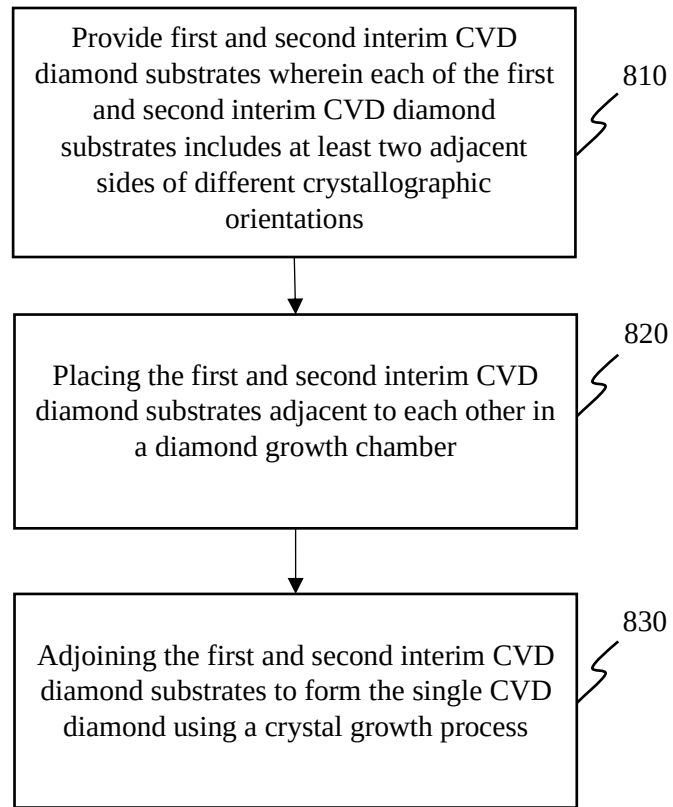


FIG. 8: A flowchart on a method of forming a large plate diamond