

# *Energy Band Diagram of Diamond with Nitrogen and Boron centers*

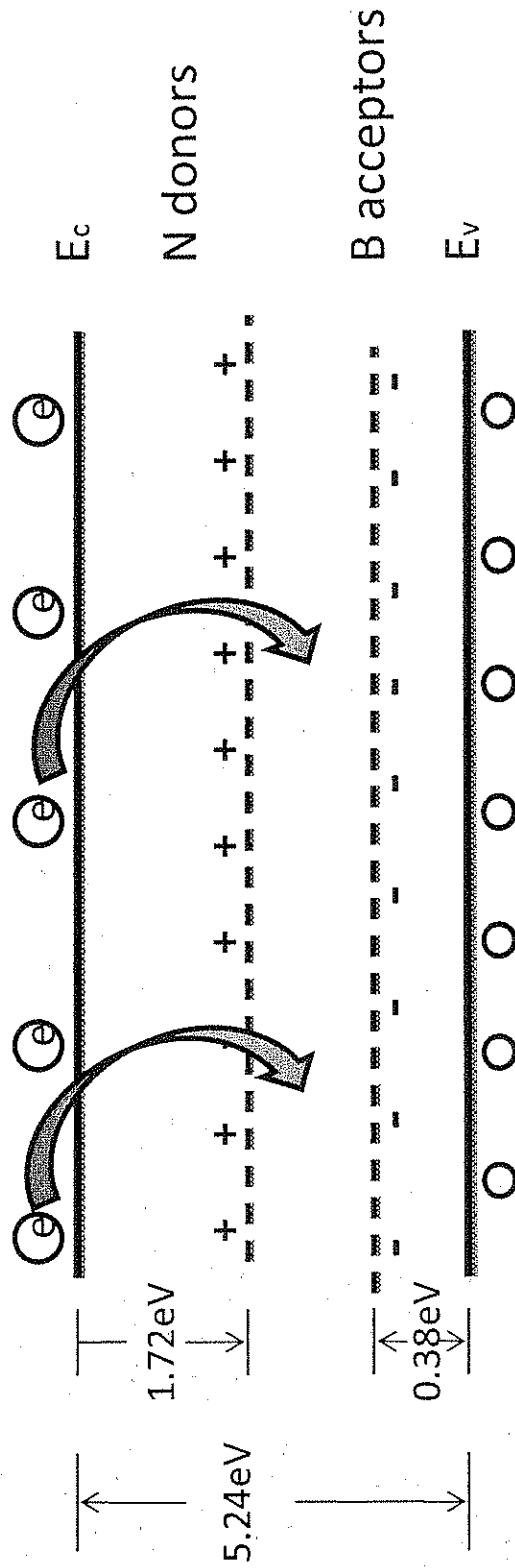
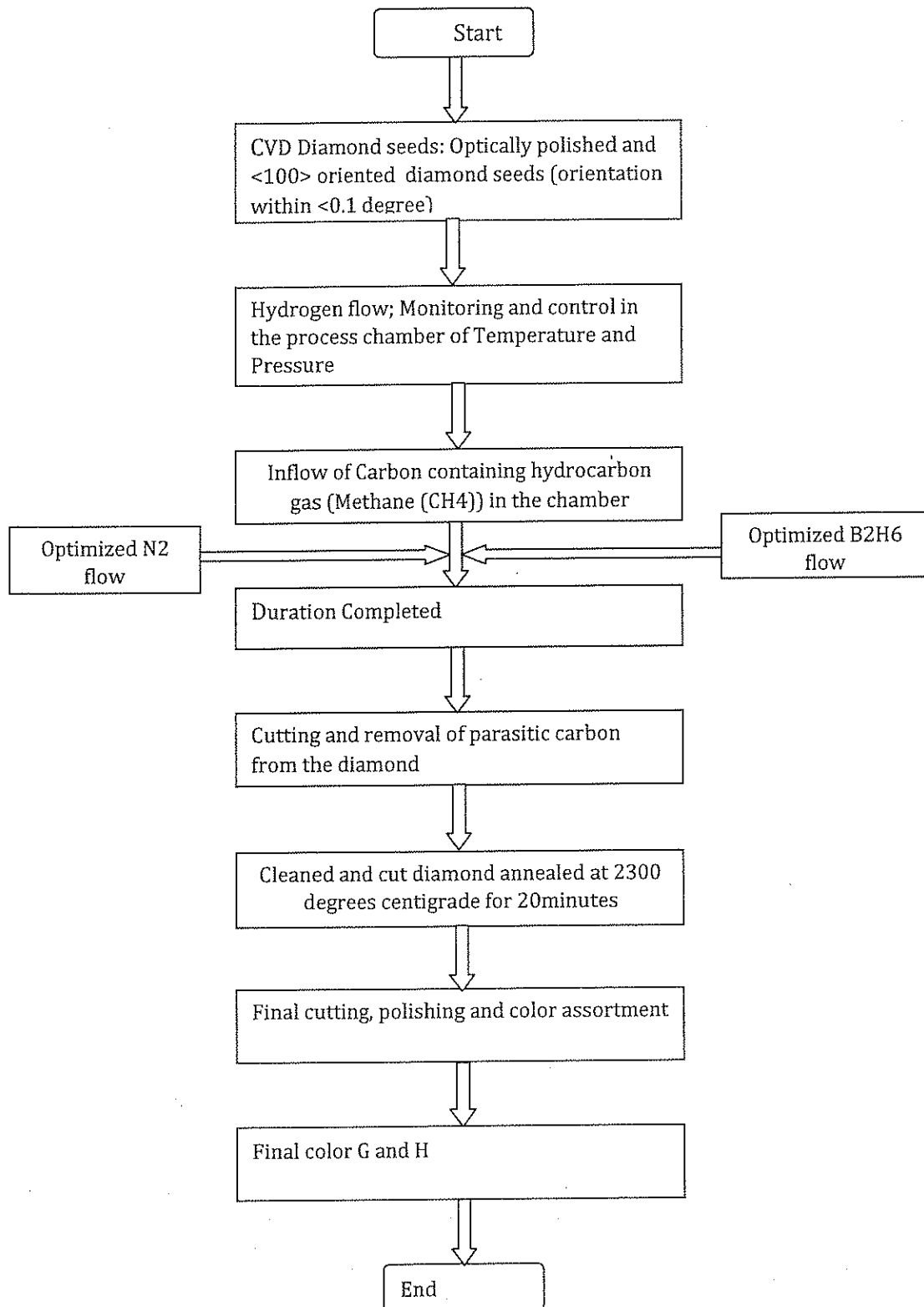
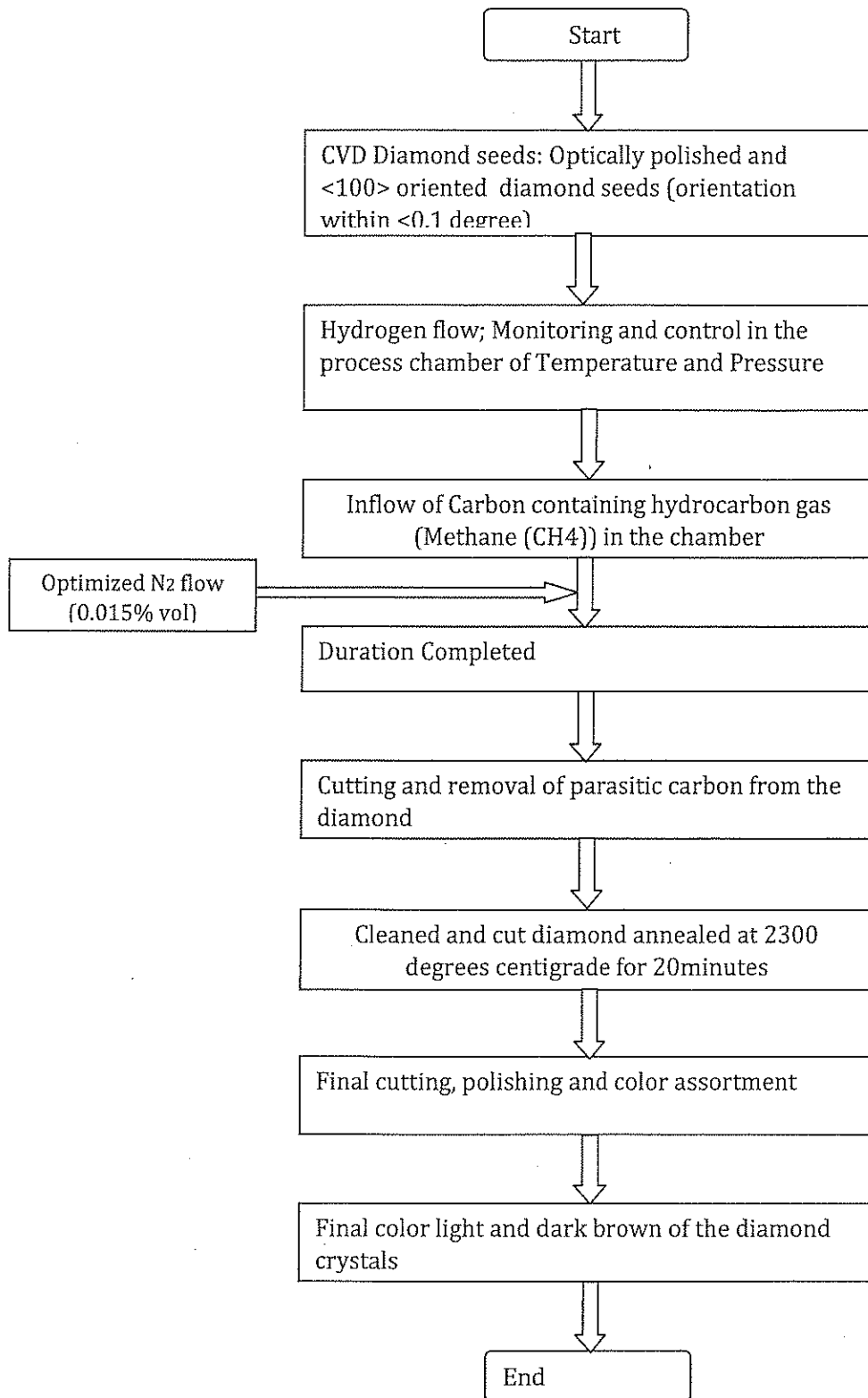
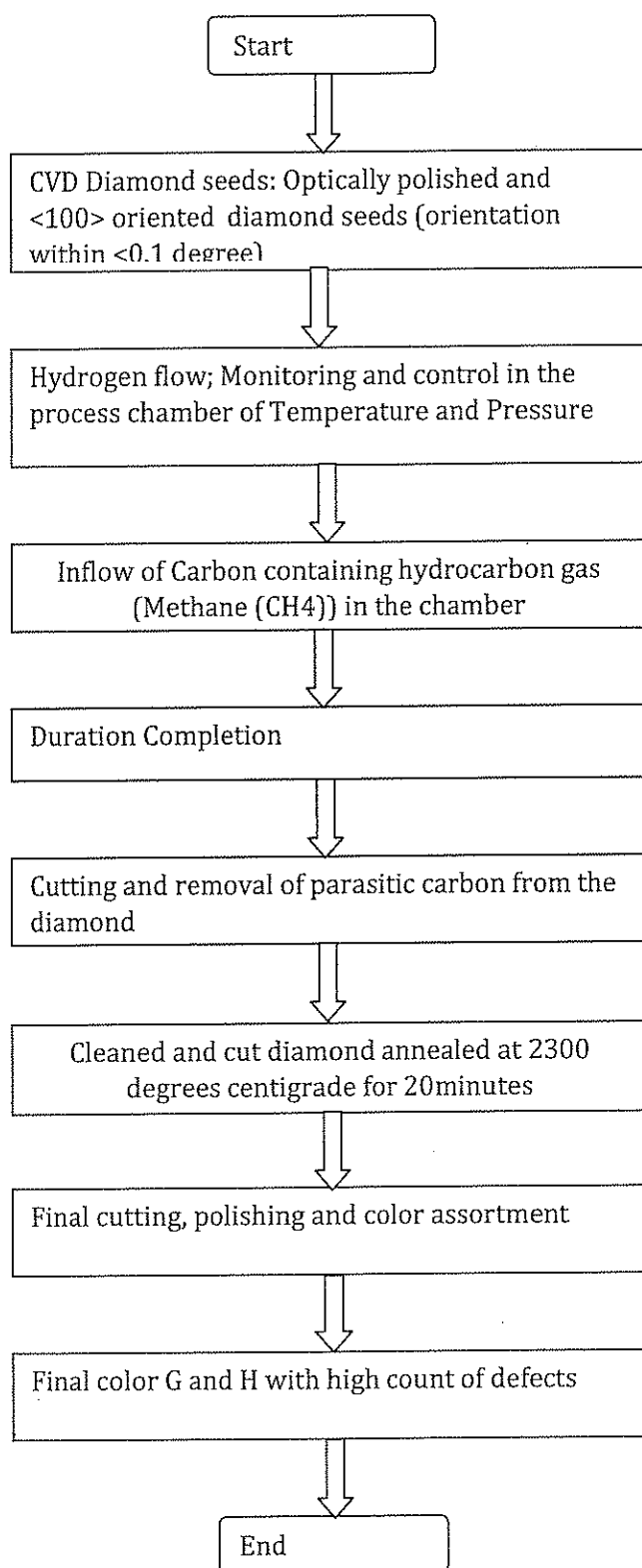
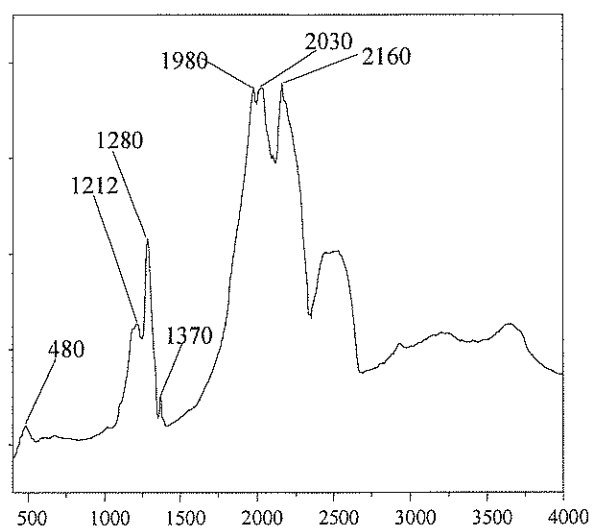


FIGURE 1

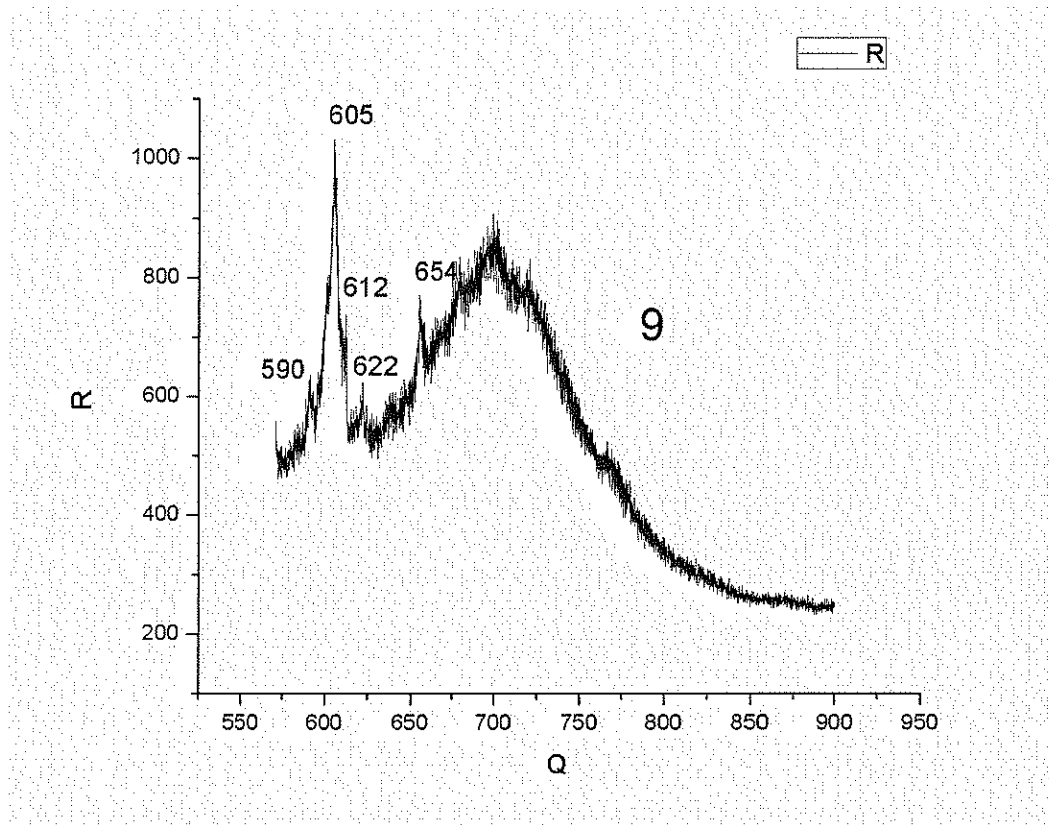
**CVD- PROCESS FLOWCHART****FIGURE 2**

**CVD- PROCESS FLOWCHART****FIGURE 3**

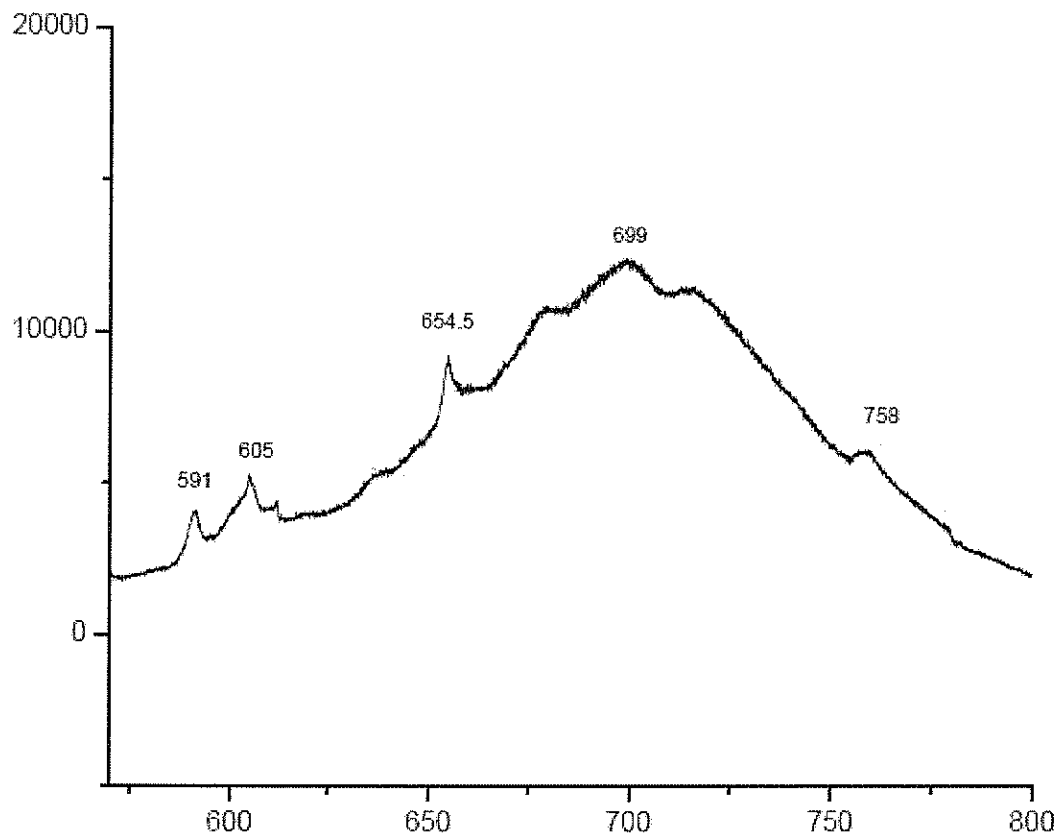
**CVD- PROCESS FLOWCHART****FIGURE 4**



**FIGURE 5**  
FTIR SPECTRUM OF DIAMOND GROWN IN ACCORDANCE WITH THE INVENTION

**FIGURE 6**

PL spectrum of CVD diamond of prepared in accordance with the embodiment of the invention

**FIGURE 7**

PL SPECTRUM OF CVD DIAMOND PREPARED IN ACCORDANCE WITH THE EMBODIEMENT OF THE INVENTION

# PL Spectra of Diamond in Liquid Nitrogen

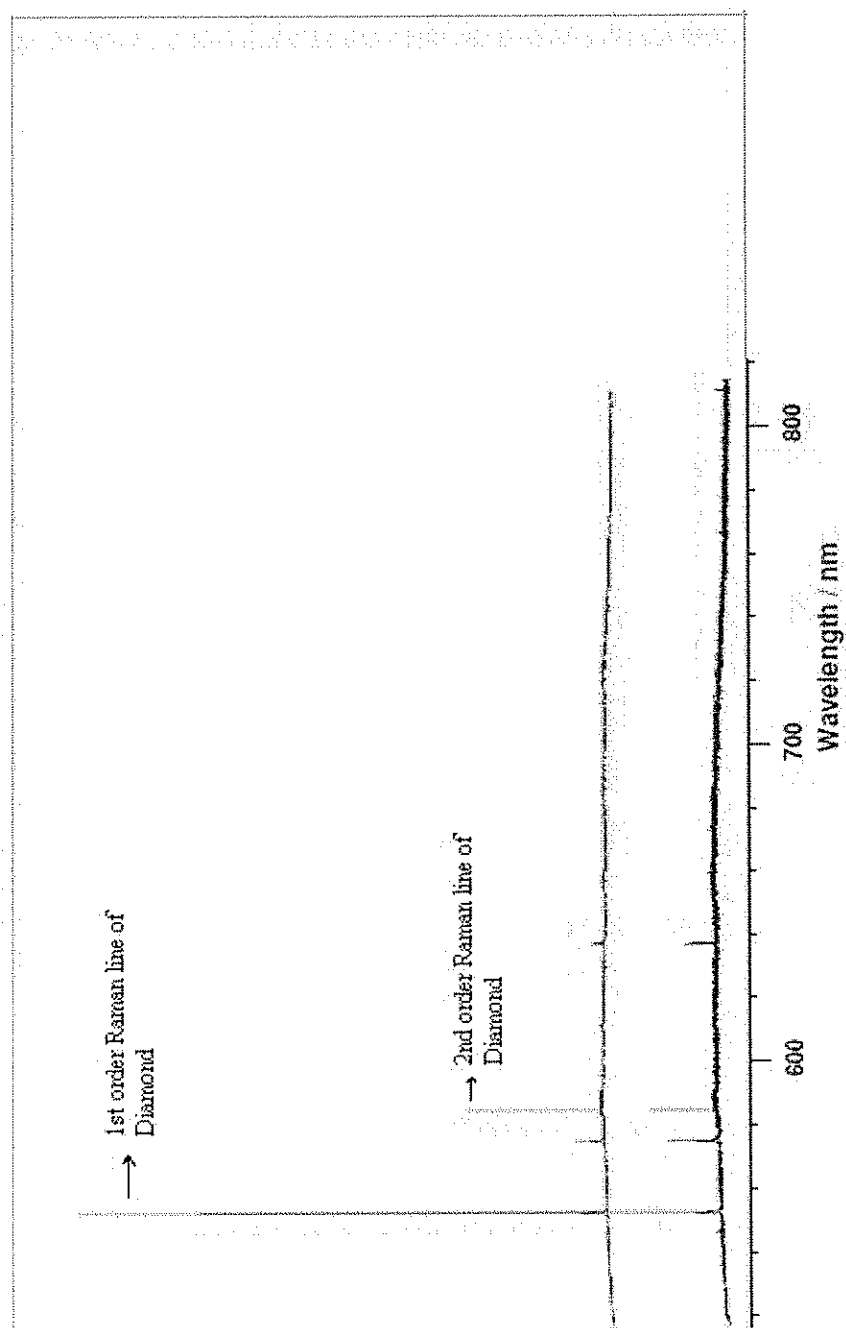
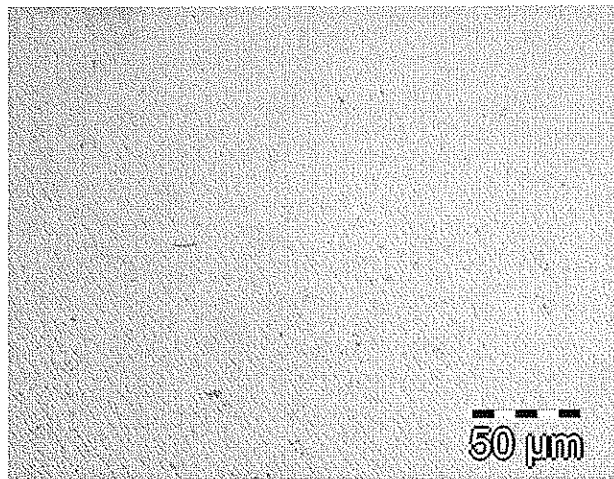
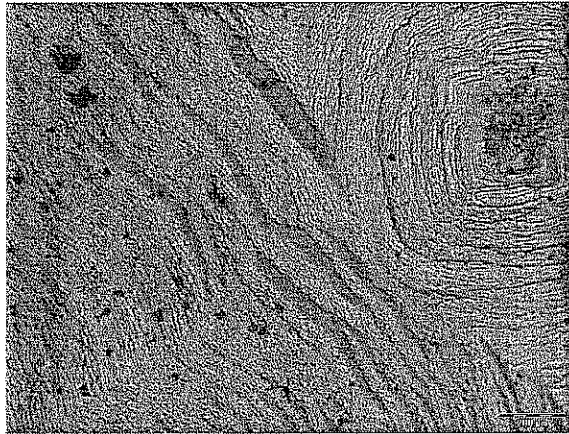


FIGURE 8



**FIGURE 9**

CLEAN STEP GROWTH AS SEEN IN CVD DIAMOND GROWN IN ACCORDANCE WITH THE INVENTION



**FIGURE 10**

THE STEPS AS SEEN IN THE DIAMOND GROWN BY CVD IN ACCORDANCE WITH  
THE INVENTION