

Diamond Material

ABSTRACT

5 Starting from a diamond material which shows a difference in its absorption
characteristics after exposure to radiation with an energy of at least 5.5 eV (typically UV
radiation) and thermal treatment at 798K, controlled irradiation is applied so as to introduce
defects in the diamond material. After the controlled irradiation the difference in the absorption
characteristics after exposure to radiation with an energy of at least 5.5 eV and thermal treatment
10 at 798K is reduced. Diamond material with absorption features characteristic of isolated
vacancies is also described.

Fig No. 6