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(71) Applicant (for all designated States except US): **ELEMENT SIX LIMITED**; Isle of Man Freeport, P O Box 6, Ballasalla, IM99 6AQ (IM).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DHILLON, Harpreet Kaur** [GB/GB]; Element Six Limited, King's Ride Park, Ascot, Berkshire SL5 8BP (GB). **GEOGHEGAN, Sarah, Louise** [GB/GB]; Element Six Limited, King's Ride Park, Ascot, Berkshire SL5 8BP (GB). **TWITCHEN, Daniel James** [GB/GB]; Element Six Limited, King's Ride Park, Ascot, Berkshire SL5 8BP (GB).

(74) Agent: **ATKINSON, Ian Anthony**; Element Six, Group Intellectual Property, 3rd Floor, Building 4, Chiswick Park, 566 Chiswick High Road London Greater London W4 5YE (GB).

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(54) Title: METHOD FOR TREATING DIAMOND MATERIAL AND PRODUCT OBTAINED

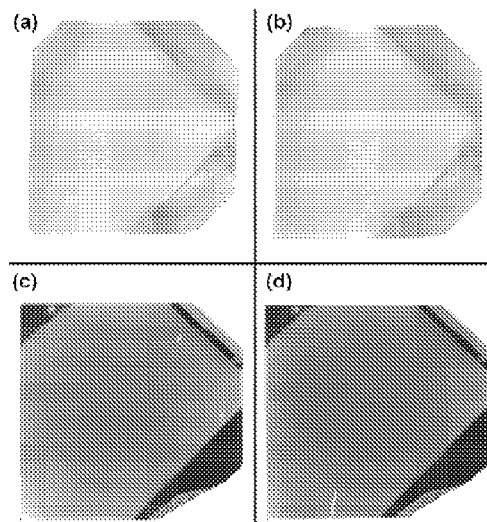


Figure 6

(57) Abstract: 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 at 798K is reduced. Diamond material with absorption features characteristic of isolated vacancies is also described.



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