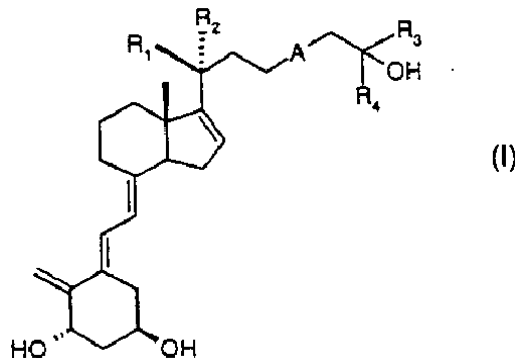


[12] Patent

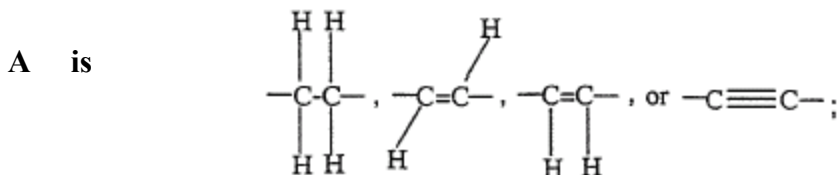
[11] Patent No.: GC 0000198	Number of the Decision to Grant the Patent: 5/461
[45] Date of Publishing the Grant of the Patent: 29/03/2006                      5/2006	Date of the Decision to Grant the Patent: 23/04/2005
[21] Application No.: GCC/P/2000/757 [22] Filing Date: 10/07/2000 [30] Priority: [31] Priority No.    [32] Priority date    [33] State 60/143413            12/07/1999            US [72] Inventors: 1- Andrew David Batcho, 2- Bernard Michael Hennessy, 3- Milan Radoje Uskokovic [73] Owner: F. Hoffmann – La Roche AG, 124 Grenzacherstrasse, CH-4070 Basel, Switzerland [74] Agent: Nassir Ali Kadasa	[51] Int. Cl. <sup>7</sup> : C07C 401/00 [56] Cited Documents: - EP 0796843 A (HOFFMANN LA ROCHE) 24 September 1997 - EP 0325279 A (HOFFMANN LA ROCHE) 26 July 1989

[54] VITAMIN D3 ANALOGS

[57] Abstract: Compounds of the formula



wherein R<sub>1</sub> is hydrogen or an alkyl group; R<sub>2</sub> is hydrogen or an alkyl group; or R<sub>1</sub>, R<sub>2</sub> and C<sub>20</sub> together are cyclopropyl;



R<sub>3</sub> is alkyl, hydroxy-alkyl or fluoroalkyl; and R<sub>4</sub> is alkyl, hydroxy-alkyl or fluoroalkyl, which are useful in the treatment of breast cancer, prostate cancer, myeloid leukemia benign prostate growth, baldness and osteoporosis.

No. of claims: 7