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(71) Applicant and
(72) Inventor: **HOFMANN, Robert, F.** [US/US]; 3105 Toro Ring, Austin, TX 78746-2432 (US).

(74) Agent: **CHWANG, T., Ling**; Jackon Walker L.L.P., 2435 N. Central Expressway, Suite 600, Richardson, TX 75080 (US).

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(54) Title: USE OF TARGETED OXIDATIVE THERAPEUTIC FORMULATION IN BONE REGENERATION

(57) Abstract: A pharmaceutical formulation and its use. The pharmaceutical formulation contains peroxidic species or reaction products resulting from oxidation of an alkene, such as geraniol, by an oxygen-containing oxidizing agent, such as ozone; a penetrating solvent, such as dimethylsulfoxide ("DMSO"); a dye containing a chelated metal, such as hematoporphyrin; and an aromatic redox compound, such as benzoquinone. The pharmaceutical formulation is used to effectively stimulate bone regeneration and increase osteoblastic activity in a patient.