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(71) Applicants *(for all designated States except US)*: **DANISCO US INC.** [US/US]; 925 Page Mill Road, Palo Alto, CA 94304-1013 (US). **THE GOODYEAR TIRE & RUBBER COMPANY** [US/US]; 1144 East Market Street, Akron, OH 44316-0001 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **CERVIN, Marguerite, A.** [CA/US]; 404 Palomar Drive, Redwood City, CA 94062 (US). **WHITED, Gregory, M.** [US/US]; 304 South Road, Belmont, CA 94002 (US). **MIASNIKOV, Andrei** [FI/US]; 1769 Latham Street, #a, Mountain View, CA 94041 (US). **PERES, Caroline, M.** [BE/US]; 2328 Santa Catalina Street, Palo Alto, CA 94303 (US). **WEYLER, Walter** [US/US]; 252 Theresa Street, San Francisco, CA 94112 (US). **WELLS, Derek, H.** [US/US]; 775b Loma Verde Avenue, Palo Alto, CA 94303 (US). **BOTT, Richard, R.** [US/US]; 3032 Hillside Drive, Burlingame, CA 94010 (US). **RIFE, Christopher, Lee.** [US/US]; 1499 Hudson Street, Redwood City, California 94061 (US).

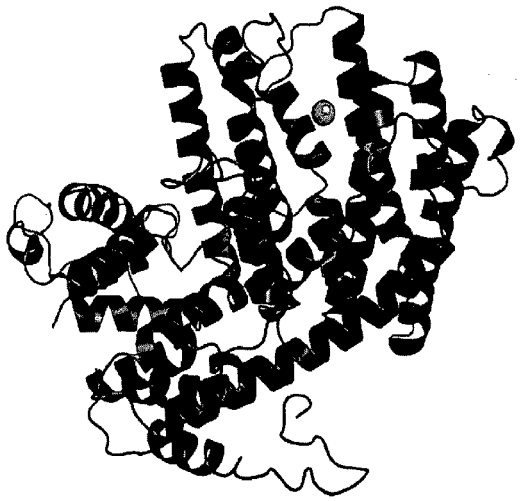
(74) Agents: **SHIEH-NEWTON, Terri** et al.; Morrison & Foerster LLP, 755 Page Mill Road, Palo Alto, CA 94304-1018 (US).

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(54) Title: ISOPRENE SYNTHASE VARIANTS FOR IMPROVED MICROBIAL PRODUCTION OF ISOPRENE

Figure 92



(57) Abstract: The present invention provides methods and compositions comprising at least one isoprene synthase enzyme with improved catalytic activity and/or solubility. In particular, the present invention provides variant plant isoprene synthases for increased isoprene production in microbial host cells. Biosynthetically produced isoprene of the present invention finds use in the manufacture of rubber and elastomers.

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