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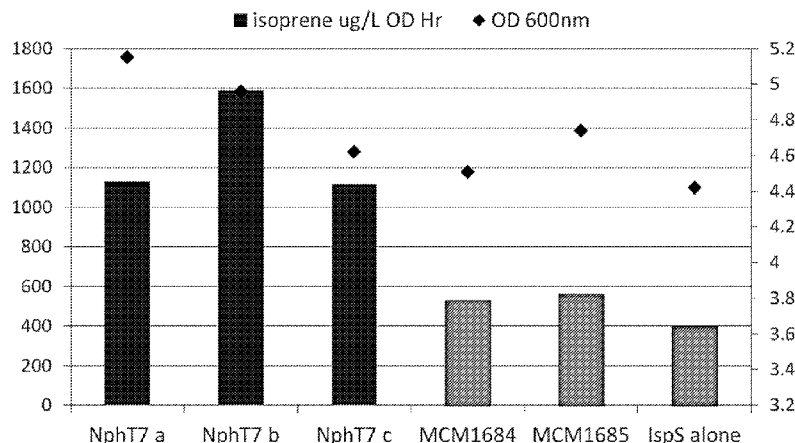
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(54) **Title**: PRODUCTION OF ISOPRENE, ISOPRENOID PRECURSORS, AND ISOPRENOIDS USING ACETOACETYL-COA SYNTHASE

Figure 7



(57) **Abstract**: This invention relates to a recombinant microorganism capable of producing isoprene and isoprene production with the use of such recombinant microorganism with good efficiency. In this invention, the acetoacetyl-CoA synthase gene encoding an enzyme capable of synthesizing acetoacetyl-CoA from malonyl-CoA and acetyl-CoA and one or more genes involved in isoprene biosynthesis that enables synthesis of isoprene from acetoacetyl-CoA are introduced into a host microorganism.