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(54) Title: PROCESS FOR PRODUCING ALKANES USING MICROORGANISMS COMBINED WITH KOLBE SYNTHESIS

(57) Abstract: The present invention relates to a method of producing at least one alkane, the method comprising, -producing at least one carboxylic acid from a carbon source using a genetically modified microorganism, and -performing Kolbe electrolysis on the carboxylic acid to produce the alkane, wherein the alkane comprises at least 6 carbon atoms and the carboxylic acid comprises at least 4 carbon atoms and wherein the carbon source is selected from the group consisting of ethanol, acetate, propionate, butyrate, isobutyrate, valerate, hexanoate and combinations thereof and the microorganism is capable of producing the carboxylic acid using ethanol-carboxylate fermentation.



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