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(71) Applicant: **LANZATECH, INC.** [US/US]; 8045 Lamon Avenue, Suite 400, Skokie, Illinois 60077 (US).

(72) Inventors: **COWDEN, Zachary Robert**; 4076 Promontory St, San Diego, California 92109 (US). **LEANG, Ching**;

8045 Lamon Avenue, Suite 400, Skokie, Illinois 60077 (US). **KOEPKE, Michael**; 8045 Lamon Avenue, Suite 400, Skokie, Illinois 60077 (US). **JENSEN, Rasmus Overgaard**; 8045 Lamon Avenue, Suite 400, Skokie, Illinois 60077 (US). **MUELLER, Alexander Paul**; 8045 Lamon Avenue, Suite 400, Skokie, Illinois 60077 (US).

(74) Agent: **CHONG, Stephen M.**; 8045 Lamon Avenue, Suite 400, Skokie, Illinois 60077 (US).

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(54) Title: MICROORGANISMS AND METHODS FOR IMPROVED BIOLOGICAL PRODUCTION OF ETHYLENE GLYCOL

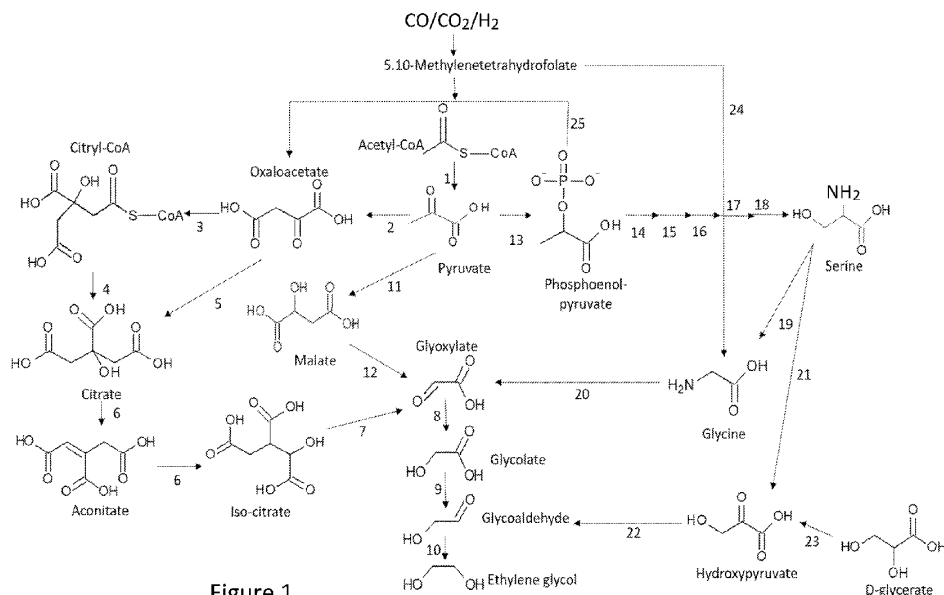


Figure 1

(57) Abstract: The disclosure provides genetically engineered microorganisms and methods for improved biological production of ethylene glycol and precursors of ethylene glycol. The microorganism of the disclosure produces ethylene glycol or a precursor of ethylene glycol through one or more of 5,10-methylenetetrahydrofolate, oxaloacetate, citrate, malate, and glycine. The disclosure further provides compositions comprising ethylene glycol or polymers of ethylene glycol such as polyethylene terephthalate.

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