

(43) International Publication Date
8 July 2010 (08.07.2010)(10) International Publication Number
WO 2010/078457 A3(51) International Patent Classification:
C12N 9/88 (2006.01) *C12N 5/10* (2006.01)(21) International Application Number:
PCT/US2009/069862(22) International Filing Date:
30 December 2009 (30.12.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/141,652 30 December 2008 (30.12.2008) US
61/187,934 17 June 2009 (17.06.2009) US(71) Applicants (for all designated States except US):
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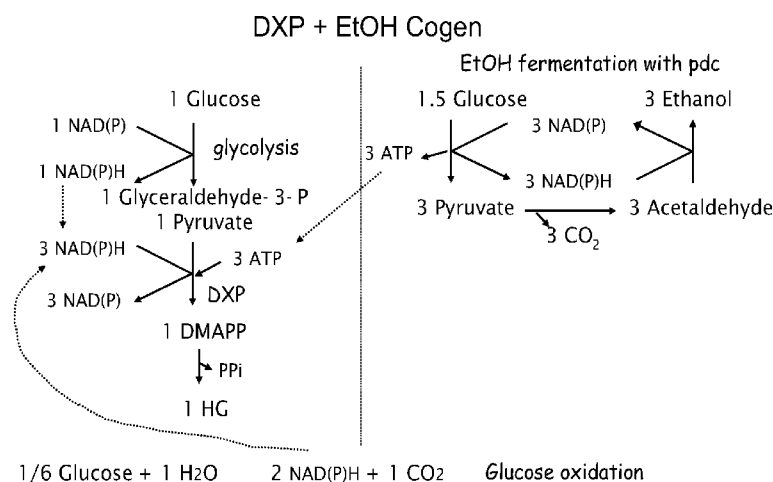
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

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(54) Title: METHODS OF PRODUCING ISOPRENE AND A CO-PRODUCT

Figure 169

Sum: $\frac{16}{6}$ Glucose $\rightarrow$ 1 Isoprene + 4 CO₂ + 3 EtOH

7/6 of glucose used for Isoprene and 9/6 used for EtOH

(57) Abstract: The invention features methods producing isoprene and a co-product, such as ethanol, 1,3-propanediol, or hydrogen from cultured cells. The invention also provides compositions that include these cultured cells. The invention provides compositions comprising isoprene and ethanol, isoprene and 1,3-propanediol, and isoprene and hydrogen. Additionally, the invention provides methods of co-producing isoprene and ethanol, isoprene and 1,3-propanediol, and isoprene and hydrogen by culturing cells under conditions suitable for co-production of isoprene and ethanol, isoprene and 1,3-propanediol, and isoprene and hydrogen.



ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))*

Published:

— *with international search report (Art. 21(3))*

(88) Date of publication of the international search report:

28 October 2010