

(51) International Patent Classification:
A23K 1/06 (2006.01) *C12P 7/10* (2006.01)(21) International Application Number:
PCT/US2010/052382(22) International Filing Date:
12 October 2010 (12.10.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/251,610 14 October 2009 (14.10.2009) US(71) Applicant (for all designated States except US): **XYLECO, INC.** [US/US]; 271 Salem St., Unit L, Woburn, MA 01801 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **MEDOFF, Marshall** [US/US]; 271 Salem St., Unit L, Woburn, MA 01801 (US).(74) Agent: **LEBER, Celia**; 2682 NW Shields Dr., Bend, OR 97701 (US).

(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, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- with international search report (Art. 21(3))

(54) Title: PRODUCING EDIBLE RESIDUES FROM ETHANOL PRODUCTION

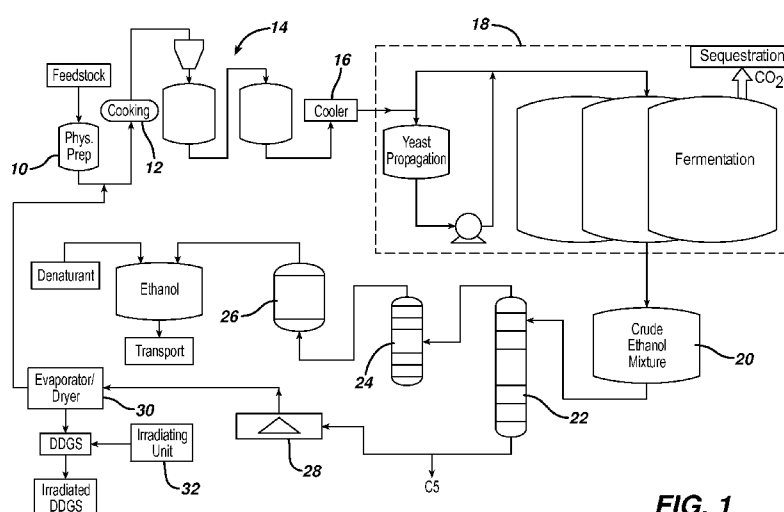


FIG. 1

(57) Abstract: Edible residues of ethanol production, e.g., distillers grains and solubles, are produced that are low in, or substantially free from, antibiotic residues. Antibiotics or bacteria present in edible residues resulting from ethanol production are inactivated by irradiating the edible residues.