



- (51) **International Patent Classification:**
C12P 33/00 (2006.01) *C12P 5/00* (2006.01)
- (21) **International Application Number:**
PCT/EP2014/054657
- (22) **International Filing Date:**
11 March 2014 (11.03.2014)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
13158937.6 13 March 2013 (13.03.2013) EP
- (71) **Applicant:** **SANOFI-AVENTIS DEUTSCHLAND GMBH** [DE/DE]; Brüningstraße 50, 65929 Frankfurt am Main (DE).
- (72) **Inventors:** **HAUBRICH, Andreas**; c/o Sanofi-Aventis Deutschland GmbH, 65926 Frankfurt am Main (DE). **KORB, Gerhard**; c/o Sanofi-Aventis Deutschland GmbH, 65926 Frankfurt am Main (DE). **TROTZIER, Jean-François**; c/o Sanofi, Département Brevets, 54 rue La Boétie, F-75008 Paris (FR).
- (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, BN, 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, IR, IS, JP, KE, KG, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

Published:

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

(54) **Title:** PRODUCTION OF SQUALENE AND/OR STEROL FROM CELL SUSPENSIONS OF FERMENTED YEAST

(57) **Abstract:** The present invention relates to a process for the production of squalene and/or sterol in high amounts using an alkaline solution and an organic lysis solvent at high temperature and high pressure for effectively lysing yeast cells and extracting squalene and/or sterol into an organic extraction solvent, thus obtaining squalene and/or sterol in high amount and of high purity.

