

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
26 March 2009 (26.03.2009)

PCT

(10) International Publication Number
WO 2009/038417 A2

(51) International Patent Classification:
C12N 5/04 (2006.01)

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(21) International Application Number:
PCT/KR2008/005605

(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, 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, 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, PG, PH, PL, PT, RO,
RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(22) International Filing Date:
22 September 2008 (22.09.2008)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2007-0096893
21 September 2007 (21.09.2007) KR

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

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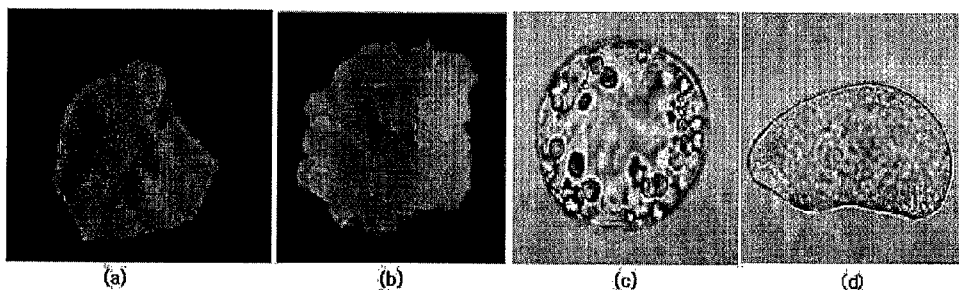
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Published:

— without international search report and to be republished
upon receipt of that report

(54) Title: PLANT STEM CELL LINE DERIVED FROM CAMBIUM OF HERBACEOUS PLANT WITH STORAGE ROOT
AND METHOD FOR ISOLATING THE SAME

FIG. 4



(57) Abstract: The present invention relates to a cell line derived from the cambium of an herbaceous plant having a storage root and a method for isolating the same. More specifically, relates to a cambium-derived homogeneous cell line having the ability to divide, which is obtained from the cambium-containing storage tissue of an herbaceous plant having a storage root without a separate dedifferentiation process, and to a method for isolating the same. The cell line derived from the cambium of an herbaceous plant having a storage root has active division ability and is homogeneous. Also, it is stable during culture, because it has not undergone a dedifferentiation process. Thus, through the optimization of proliferation thereof, the cell line can be allowed to proliferate in a large amount within a short time. Accordingly, the cell line derived from the cambium of an herbaceous plant having a storage root makes it possible to produce large amounts of useful plants which are difficult to cultivate outdoor due to various problems associated with the period of cultivation, the selection of cultivation land, cultivation cost and the like.