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(54) Title of the invention : SONICATION AND VACUUM INFILTRATION ASSISTED SOYBEAN SEED TRANSFORMATION USING AGROBACTERIUM TUMEFACIENS

(51) International classification :G0 (31) Priority Document No :NA (32) Priority Date :NA (33) Name of priority country :NA (86) International Application No :NA Filing Date :NA (87) International Publication No :NA (61) Patent of Addition to Application Number Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	1)ANDY GANAPATHI Address of Applicant :PLANT MOLECULAR BIOLOGY LABORATORY DEPARTMENT OF BIOTECHNOLOGY & GENETIC ENGINEERING, BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI - 620 024 Tamil Nadu India 2)KONDETI SUBRAMANYAM 3)MARKANDAN MANICKAVASAGAM (72)Name of Inventor: 1)ANDY GANAPATHI 2)KONDETI SUBRAMANYAM
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(57) Abstract:

The invention presents a tissue culture and genotype -independent method of in planta transformation of an intact soybean seed mediated by Agrobacterium tumefaciens and subsequent direct production of whole plant from seed. The method provides a non-invasive means of infecting the seed using sonication for wounding and vacuum infiltration for infecting the intact seed. The transformed seeds are screened using the BASTA® and the resistant putatively transformed plant leaves were subjected to histochemical GUS assay.

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