Title (en)

TRANSGENIC CARNATIONS EXHIBIT PROLONGED POST-HARVEST LIFE

Title (de)

TRANSGENE NELKEN MIT LÄNGERER LEBENSDAUER NACH DER ERNTE

Title (fr)

ILLETS TRANSGENIQUES PRESENTANT UNE VIE PROLONGEE APRES RECOLTE

Publication

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Application

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Abstract (en)

[origin: WO9635792A1] The present invention relates generally to transgenic plants which exhibit prolonged post-harvest life properties. More particularly, the present invention is directed to transgenic carnation plants modified to reduce expression of one or more enzymes associated with the ethylene biosynthetic pathway. Flowers of such carnation plants do not produce ethylene, or produce ethylene in reduced amounts, and are, therefore, capable of surviving longer post-harvest than flowers of non-genetically modified, naturally-occuring carnation plants.

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Citation (search report)

- [X] WO 9101375 A1 19910207 - ICI PLC [GB]
- [PX] WO 9607742 A1 19960314 - ASGROW SEED CO [US], et al
- [E] WO 9621027 A1 19960711 - ASGROW SEED CO [US], et al
- [X] MICHAEL M Z ET AL: "CLONING OF ETHYLENE BIOSYNTHETIC GENES INVOLVED IN PETA SENESCENCE OF CARNATION AND PETUNIA, AND THEIR ANTISENSE EXPRESSION IN TRANSGENIC PLANTS", CURRENT PLANT SCIENCE AND BIOTECHNOLOGY IN AGRICULTURE, vol. 16, 1993, pages 298 - 303, XP002014398
- [X] BOVY,A.G., ET AL.: "genetic modification of the vase-life of carnation", ACTA HORTICULTURAE - SIXTH INTERNATIONAL SYMPOSIUM ON POSTHARVEST PHYSIOLOGY OF ORNAMENTAL PLANTS, vol. 405, 1995, pages 179 - 189, XP002096435
- [A] MICHAEL,M.Z.: "isolation of petal senescence-associated cDNA clones encoding 1-aminocyclopropane-1-carboxylate synthase from Petunia hybrida and Dianthus caryophyllus", EMBL SEQUENCE DATA LIBRARY, 9 December 1992 (1992-12-09), heidelberg, germany, XP002095861
- [A] SAVIN, K.W., ET AL.: "antisense ACC oxidase RNA delays Carnation petal senescence", EMBL SEQUENCE DATA LIBRARY, 11 August 1994 (1994-08-11), heidelberg, germany, XP002095862
- [A] HENSKENS,J.A.M., ET AL.: "molecular cloning of two different ACC synthase PCR fragments in carnation flowers and organ-specific expression of the corresponding genes", PLANT MOLECULAR BIOLOGY, vol. 26, 1994, pages 453 - 458, XP002095863
- See references of WO 9635792A1

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