

Title (en)
INHIBITION OF CELL RESPIRATION AND PRODUCTION OF MALE STERILE PLANTS

Title (de)
HEMMUNG DER ZELLATMUNG UND HERSTELLUNG MÄNNLICH-STERILER PFLANZEN

Title (fr)
INHIBITION DE LA RESPIRATION CELLULAIRE ET PRODUCTION DE PLANTES MALES STERILES

Publication
EP 0853674 A1 19980722 (EN)

Application
EP 96924071 A 19960711

Priority
• GB 9601675 W 19960711
• GB 9515161 A 19950724

Abstract (en)
[origin: WO9704116A1] A method of inhibiting gene expression in a target plant tissue which comprises stably transforming a plant cell of a type from which a whole plant may be regenerated with a gene construct carrying a tissue-specific or a development-specific promoter which operates in the cells of the target plant tissue and a disrupter gene encoding a protein which is capable, when expressed, of inhibiting respiration in the cells of the said target tissue resulting in death of the cells, the said disrupter gene is selected from the group consisting of the T-urfl3 gene, genes encoding an alpha - or beta -tubulin, short sense co-suppression of two essential maize cell cycle genes, cdc25 and replication origin activator (ROA) and a short sense construct to the adenine nucleotide translocator (ANT) of the inner mitochondrial membrane.

IPC 1-7
C12N 15/82; **C12N 5/10**

IPC 8 full level
A01H 5/00 (2006.01); **C12N 5/10** (2006.01); **A01H 1/00** (2006.01); **C12N 15/09** (2006.01); **C12N 15/82** (2006.01)

CPC (source: EP)
C12N 15/8218 (2013.01); **C12N 15/8289** (2013.01)

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9704116 A1 19970206; AR 002924 A1 19980429; AU 6465296 A 19970218; AU 705759 B2 19990603; BG 102274 A 19980930; BR 9609535 A 19990223; CA 2224736 A1 19970206; CN 1197481 A 19981028; CZ 20598 A3 19980415; EP 0853674 A1 19980722; GB 9515161 D0 19950920; HU P9802858 A2 19990329; HU P9802858 A3 20001128; JP H11509417 A 19990824; MX 9800575 A 19980430; NO 980314 D0 19980123; NO 980314 L 19980323; NZ 312750 A 20000228; PL 324656 A1 19980608; RU 2168545 C2 20010610; TR 199800112 T1 19980421; TR 199801883 T2 19981221; TR 199801884 T2 20000921

DOCDB simple family (application)
GB 9601675 W 19960711; AR 10370196 A 19960723; AU 6465296 A 19960711; BG 10227498 A 19980224; BR 9609535 A 19960711; CA 2224736 A 19960711; CN 96197145 A 19960711; CZ 20598 A 19960711; EP 96924071 A 19960711; GB 9515161 A 19950724; HU P9802858 A 19960711; JP 50640697 A 19960711; MX 9800575 A 19960711; NO 980314 A 19980123; NZ 31275096 A 19960711; PL 32465696 A 19960711; RU 98103336 A 19960711; TR 9800112 T 19960711; TR 9801883 T 19960711; TR 9801884 T 19960711