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New maize alpha-tubulin promoters - and chimeric genes comprising promoter and heterologous gene for prodn. of transgenic plants

Número(s) de patente: EP652286-A1; FR2712302-A1; AU9477751-A; BR9404562-A; CA2135461-A; SK9401340-A3; JP7184664-A; ZA9408826-A; CZ9402743-A3 ; NZ264879-A; US5635618-A; HU70464-T; CN1121958-A; AU682539-B

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Número de acceso primario Derwent: 1995-171922

Patentes citadas por inventor: 2
Patentes citadas por examinador: 5

Artículos citados por examinador: 11

Abstract: New isolated nucleic acids (I) derived from a maize -tubulin gene comprise at least one regulatory element (promoter) capable of controlling specific expression in pollen, roots, meristems and/or immature embryos. Also claimed are: (1) a chimeric plant gene comprising a functional fragment of a promoter as above, operably linked to the coding sequence of a heterologous gene; (2) a plant transformation vector comprising a chimeric gene as above; (3) a plant cell contg. a vector as above; (4) a plant or plant descendant regenerated from a cell as above; and (5) a process for producing a plant with an improved agronomic property, comprising transforming a plant cell with a vector as above and regenerating the plant.

USE-The chimeric genes are useful for generating transgenic plants (pref. cereals, tobacco, cotton or soya) which express a heterologous gene and thereby improve an agronomic property of the plant. Preferred genes are those coding for lipid metabolism enzymes, desaturases, 5'-enolpyruvyl shikimate-3-phosphate synthase, acetolactase and 3-hydroxyphenyl pyruvate dioxygenase. In particular, herbicide-resistant transgenic plants which express a herbicide resistance enzyme can be generated, e.g. tobacco plants resistant to glyphosate.

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Clasificación internacional de patentes: C12N-015/82; A01H-005/00; C12N-015/29; C12N-005/10; C12N-015/11; C12N-015/62; C12N-015/79; A01M-005/00; C12N-015/52; C12N-015/05; A01H-004/00; C12N-015/83; C12N-015/09; C12N-000/00; A01H-000/00; C07H-021/00; C12N-015/10; C12N-015/87; A01H-001/00; C12N-005/14; C12N-005/04; C12N-015/63

Código(s) de clase Derwent: C06 (Biotechnology - including plant genetics and veterinary vaccines.); D16 (Fermentation industry - including fermentation equipment, brewing, yeast production, production of pharmaceuticals and other chemicals by fermentation, microbiology, production of vaccines and antibodies, cell and tissue culture and genetic engineering.); P13 (Plant culture, dairy products (A01G, H, J).)

Código(s) de manual Derwent: C04-E01; C04-E02E; C04-E08; C04-F0800E; C14-M01E; D05-H12C; D05-H12D5; D05-H12E; D05-H14B3; D05-H16B

Detalles de patente:

| Número de patente | Fecha de Publicación | IPC principal | Semana | Número de páginas | Idioma |
|-------------------|----------------------|---------------|--------|-------------------|----------|
| EP652286-A1 | 10 May 1995 | C12N-015/82 | 199523 | Pages: 24 | French |
| FR2712302-A1 | 19 May 1995 | C12N-015/11 | 199525 | | French |
| AU9477751-A | 18 May 1995 | C12N-015/62 | 199528 | | English |
| BR9404562-A | 20 Jun 1995 | C12N-015/29 | 199531 | | |
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| ZA9408826-A | 27 Sep 1995 | C12N-000/00 | 199544 | Pages: 54 | English |
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| US5635618-A | 03 Jun 1997 | C12N-005/14 | 199728 | Pages: 16 | English |
| HU70464-T | 30 Oct 1995 | C12N-015/82 | 199732 | | Hungary |
| CN1121958-A | 08 May 1996 | C12N-015/29 | 199746 | | Chinese |
| AU682539-B | 09 Oct 1997 | C12N-015/62 | 199749 | | English |

Detalles de la solicitud:

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| EP652286-A1 | EP420306 | 09 Nov 1994 |
| FR2712302-A1 | FR013684 | 10 Nov 1993 |
| AU9477751-A | AU077751 | 09 Nov 1994 |
| BR9404562-A | BR004562 | 08 Nov 1994 |
| CA2135461-A | CA2135461 | 09 Nov 1994 |
| SK9401340-A3 | SK001340 | 08 Nov 1994 |
| JP7184664-A | JP276846 | 10 Nov 1994 |
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| CZ9402743-A3 | CZ002743 | 08 Nov 1994 |
| NZ264879-A | NZ264879 | 08 Nov 1994 |
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Más detalles de la solicitud:

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| AU682539-B | Previous Publ. | Patent | AU9477751 |
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Fecha e información de prioridad de solicitud:

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