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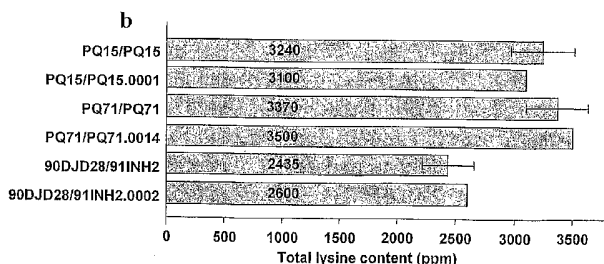
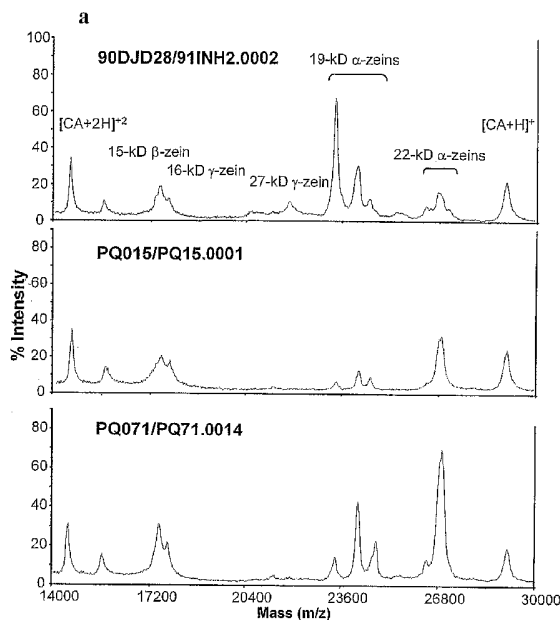
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(54) Title: MAIZE SEED WITH SYNERGISTICALLY ENHANCED LYSINE CONTENT



(57) Abstract: The present invention provides a transgenic maize plant having in its genome transgenic DNA including sequence for zein reduction and sequence for lysine biosynthesis, whereby expression of the transgenic DNA results in a synergistically increased lysine content of seed of the transgenic maize plant. The invention further provides a method for providing maize seed with synergistically increased lysine content.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. C12N15/82

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data, MEDLINE, EMBASE, BIOSIS, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HUANG S ET AL: "Improving nutritional quality of maize proteins by expressing sense and antisense zein genes" JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 52, no. 7, 7 April 2004 (2004-04-07), pages 1958-1964, XP002339176 ISSN: 0021-8561 cited in the application the whole document	
A	----- US 6 858 778 B1 (JUNG RUDOLF ET AL) 22 February 2005 (2005-02-22) cited in the application the whole document ----- -/--	

Further documents are listed in the continuation of Box C. See patent family annex.

- * Special categories of cited documents :
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| <p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p> | <p>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>*&* document member of the same patent family</p> |
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Date of the actual completion of the international search	Date of mailing of the international search report
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer <p style="text-align: center;">Chakravarty, A</p>
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INTERNATIONAL SEARCH REPORT

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 773 691 A (FALCO ET AL) 30 June 1998 (1998-06-30) cited in the application the whole document -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6858778	B1	US 2005160488 A1	21-07-2005
US 5773691	A	NONE	