

INFORME DE BÚSQUEDA DE PATENTES PARA EL No de Radicación: 14-046974						
CRITERIOS PARA LA BÚSQUEDA (anexar pantallazo o reporte en PDF, junto con los boleanos utilizados)						
Palabras clave utilizadas		"modified oleosins and oil production" "cysteine proteins in oil bodies"				
CLASIFICACIONES INTERNACIONALES UTILIZADAS PARA LA BÚSQUEDA		A01H13/00, A01H5/00, A23K1/00, C07K14/415, C12N1/13, C12N15/29, C12N15/82 y C12P5/00.				
BASES DE DATOS CONSULTADAS.						
Google patents		ScienceDirect				
WIPO						
Espacenet						
INFORMES DE EXÁMENES REALIZADOS EN OTRAS OFICINAS (documentos patentes, literatura no patente etc...)						
Oficina	Fecha del examen o de reporte de búsqueda de documentos	Anterioridades encontradas para el examen o reportados en el examen de búsqueda(relacionarlos todos)	Reiv. afectadas	RELEVANCIA (requisito que afecta)	FUERON TENIDOS EN CUENTA PARA EL EXAMEN EN LA OFICINA COLOMBIANA	
					SI	NO
EUROPEA	3/Agosto/2012	WO 2011053169	1-34, 37, 39, 67 y 69	Novedad		X
			35-69	Nivel inventivo		
		WO 2007045019	1-34	Novedad		X
		VAN ROOIJEN, G.J.H. ET AL.: 'Structural Requirements of the Oleosin domains for subcellular targeting to the oil body.' PLANT PHYSIOLOGY vol. 109, 1995, pages 1353 - 1361	35-50	Novedad		X
USPTO	No se ha realizado	NA	NA	NA	NA	NA
DOCUMENTOS ADICIONALES ENCONTRADOS POR EL EXAMINADOR DE ACUERDO A LOS CRITERIOS DE BÚSQUEDA.						
CA 2626390. "Polyoleosins" 26/Abril/2007. http://www.google.com/patents/CA2626390A1?cl=en						
WO2004076673. Methods and constructs for increasing the content of selected amino acids in sedes. 10/Septiembre/2004. http://www.google.com/patents/WO2004076673A1?cl=en						
BÚSQUEDA DE SECUENCIAS						
Número de depósito / patente y N° de secuencia						
% de identidad						
SEQ ID NO (de la solicitud)	NCBI		The Lens	EMBL-EBI	DDJB	Genome Quest
1, 2, 6, 7, 8, 9 a 11 (posiblemente reclamadas)	No hay identidad significativa.					
	85%					
12 a 117	Secuencias de genomas y genes de TAG de varias plantas y oleosinas ya reportados en genbank.					
	90-100% de identidad					

CRITERIOS DE BÚSQUEDA / UNIDAD DE INVENCIÓN (Pantallazos)

Unidad de invención para las secuencias polipeptídicas posiblemente reclamadas

SeqA	Name	Length	SeqB	Name	Length	Score
1	SEQ_ID_NO_6	192	2	SEQ_ID_NO_7	176	97.73
1	SEQ_ID_NO_6	192	3	SEQ_ID_NO_8	176	97.16
1	SEQ_ID_NO_6	192	4	SEQ_ID_NO_9	174	95.4
1	SEQ_ID_NO_6	192	5	SEQ_ID_NO_10	176	96.59
2	SEQ_ID_NO_7	176	3	SEQ_ID_NO_8	176	97.16
2	SEQ_ID_NO_7	176	4	SEQ_ID_NO_9	174	96.55
2	SEQ_ID_NO_7	176	5	SEQ_ID_NO_10	176	96.59
3	SEQ_ID_NO_8	176	4	SEQ_ID_NO_9	174	94.83
3	SEQ_ID_NO_8	176	5	SEQ_ID_NO_10	176	98.3
4	SEQ_ID_NO_9	174	5	SEQ_ID_NO_10	176	96.55

Como se evidencia en la tabla y en el alineamiento de la parte inferior las secuencias posiblemente reclamadas presentan unidad de invención.

CLUSTAL 2.1 multiple sequence alignment

```
SEQ_ID_NO_8      MKETAAAKFERQHMDSPDLGTLVPRGSMACHYGQQQQTRAPHLQLQPRAQRVVKAATAVT 60
SEQ_ID_NO_10     MKETAAAKFERQHMDSPDLGTLVPRGSMACHYGQQQQTCAPHLQLQPACRVVKAATAVT 60
SEQ_ID_NO_6      MKETAAAKFERQHMDSPDLGTLVPRGSMACHYGQQQQTRAPHLQLQPRAQRVVKAATAVT 60
SEQ_ID_NO_7      MKETAAAKFERQHMDSPDLGTLVPRGSMACHYGQQQQTRAPHLQLQPAAQRVVKAATAVT 60
SEQ_ID_NO_9      -KETAAAKFEAQHMDSDLGTLVPAGSMACHYGQQQQTCAPHLQLQPAACRVVKAATAVT 58
                  *****  *****  *****  *****  *****  *****  *  *****

SEQ_ID_NO_8      AGGSLLVLSGLTLAGTVIALTIATPLLVI FSPVL VPAVITIFLLGAGFLASGGFGVAALS 120
SEQ_ID_NO_10     AGGSLLVLSGLTLAGTVIALTIATPLLVI FSPVL VPAVITIFLLGAGFLASGGFGVAALS 120
SEQ_ID_NO_6      AGGSLLVLSGLTLAGTVIALTIATPLLVI FSPVL VPAVITIFLLGAGFLASGGFGVAALS 120
SEQ_ID_NO_7      AGGSLLVLSGLTLAGTVIALTIATPLLVI FSPVL VPAVITIFLLGAGFLASGGFGVAALS 120
SEQ_ID_NO_9      AGGSLLVLSGLTLAGTVIALTIATPLLVI FSPVL VPAVITIFLLGAGFLASGGFGVAALS 118
                  *****:*****

SEQ_ID_NO_8      VLSWIYAYLTGKHPPGADCLESAKTKLASCAREMKDRAEQFSCQPVPW----- 168
SEQ_ID_NO_10     VLSWIYRYLTGKHPPGADCLESAKTKLASCAREMKDRAEQFSCQPVPW----- 168
SEQ_ID_NO_6      VLSWIYRYLTGKHPPGADQLES AKTKLASKAREMKDRAEQFSQQPVPWLISDPNSSSVDK 180
SEQ_ID_NO_7      VLSWIYRYLTGKHPPGADQLES AKTKLASKAREMKDRAEQFSCQPVPW----- 168
SEQ_ID_NO_9      VLSWFYRYLTGKHPPGADQLES AKTKLASKAREMKDRAEQFSCQPVPW----- 166
                  *****: *****  *****  *****  *****

SEQ_ID_NO_8      ----LEHHHHHH 176
SEQ_ID_NO_10     ----LEHHHHHH 176
SEQ_ID_NO_6      LAAALEHHHHHH 192
SEQ_ID_NO_7      ----LEHHHHHH 176
SEQ_ID_NO_9      ----LEHHHHHH 174
                  *****
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Pantallazos búsqueda

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Search 8: TAC=(OLEOSINE~)
Results 187

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6	TAC=(OLESINES~ AND CO2~)	0	
5	TAC=(OLEOSINES~ AND CO2~ INCREASE~ ASSIMILATION~)	0	
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3	TAC=(TRASGENIC~ AND PLANTS~ AND INCREASING~ AND CO2~ AND ASSIMILATION~)	0	
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1	TAC=(METHOD~ AND TO~ AND INCREASE~ AND CO2~ AND ASIMILATION~ AND IN~ AND PLANTS~)	0	

method for increase assimilation of CO₂ in plants

Author name

Journal or book title

Volume

Issue

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☐ 2011 (970)

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Publication title

- ☐ Agricultural and Forest Meteorology (709)
☐ Journal of Plant Physiology (658)
☐ Environmental and Experimental Botany (624)
☐ Soil Biology and Biochemistry (571)
☐ Scientia Horticulturae (445)

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☐ plant physioli (201)
☐ leaf area (138)
☐ climate change (133)

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Relevance

All access types

- ☐ Interactive effects of CO₂ enrichment and brassinosteroid on CO₂ assimilation and photosynthetic electron transport in *Cucumis sativus* Original Research Article
Environmental and Experimental Botany, Volume 75, January 2012, Pages 98-106
Yu-Ping Jiang, Fei Cheng, Yan-Hong Zhou, Xiao-Jian Xia, Kai Shi, Jing-Quan Yu
[Abstract](#) | [Graphical abstract](#) | PDF (472 K)
- ☐ Photosynthetic alterations of pea leaves infected systemically by pea enation mosaic virus: A coordinated decrease in efficiencies of CO₂ assimilation and photosystem II photochemistry Original Research Article
Plant Physiology and Biochemistry, Volume 49, Issue 11, November 2011, Pages 1279-1289
Helena Kyseláková, Jitka Prokopová, Jan Nauš, Ondřej Novák, Milan Navrátil, Dana Šafářová, Martina Špundová, Petr Ilík
[Abstract](#) | [Graphical abstract](#) | PDF (1204 K)
- ☐ High irradiance improves ammonium tolerance in wheat plants by increasing N assimilation Original Research Article
Journal of Plant Physiology, Volume 170, Issue 8, 15 May 2013, Pages 758-771
Igor Setián, Teresa Fuertes-Mendizabal, Azucena González, Pedro M^a Aparicio-Tejo, Carmen González-Murua, María Begoña González-Moro, José María Estavillo
[Abstract](#) | PDF (1528 K)
- ☐ Carbon assimilation and allocation (¹³C labeling) in a boreal perennial grass (*Phalaris arundinacea*) subjected to elevated temperature and CO₂ through a growing season Original Research Article
Environmental and Experimental Botany, Volume 75, January 2012, Pages 150-158
Zhen-Ming Ge, Xiao Zhou, Seppo Kellomäki, Christina Biasi, Kai-Yun Wang, Heli Peltola, Pertti J. Martikainen
[Abstract](#) | [Graphical abstract](#) | PDF (1043 K)
- ☐ Combined effects of elevated [CO₂] and high night temperature on carbon assimilation, nitrogen absorption, and the allocations of C and N by rice (*Oryza sativa* L.) Original Research Article
Agricultural and Forest Meteorology, Volume 150, Issue 9, 15 August 2010, Pages 1174-1181
Weiguo Cheng, Hidemitsu Sakai, Kazuyuki Yagi, Toshihiro Hasegawa
[Abstract](#) | PDF (603 K)
- ☐ Elevated root-zone CO₂ protects lettuce plants from midday depression of photosynthesis Original Research Article
Environmental and Experimental Botany, Volume 61, Issue 1, September 2007, Pages 94-101
Jie He, Paul Thomas Austin, Michale A. Nichols, Sing Kong Lee
[Abstract](#) | PDF (470 K)
- ☐ The effects of depleted, current and elevated growth [CO₂] in wheat are modulated by water availability Original Research Article

<https://www.google.com.co/search?q=Methods+for+increasing+CO2+assimilat>

Methods for increasing CO2 assimilation and oil production

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Cualq

Systems and methods for maintaining the dominance and ...



www.google.com.co/patents/US8143051 - Traducir esta página

Otorgada - Presentada el 4 Feb. 2009 - Emitido el 27 Mar. 2012 - Joseph Weissman - Aurora Algae, Inc.

Exemplary **methods** include applying an effective amount of ozone to ... A **method** for maintaining dominance and **increasing** biomass **production** of Using sequential photoautotrophic and heterotrophic growth to **produce** **oil** in Light Intensity During Leaf Growth Affects Chlorophyll Concentration and **CO2 Assimilation** ...

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Method for increasing the health of a plant



www.google.com.co/.../WO2011151261... - Traducir esta página

Solicitud - Presentada el 27 Mayo 2011 - Publicada el 8 Dic. 2011 - Marco-Antonio Tavares-Rodrigues - Basf Se

The present invention relates to a **method** for **increasing** the health of a plant comprising the steps: 1) applying to plant propagation material a mixture ...

[Descripción general](#) - [Información relacionada](#) - [Debatir](#)

Biological clean fuel processing systems and methods



www.google.com.co/.../CA2803091A1?c... - Traducir esta página

Solicitud - Presentada el 27 Jul. 2010 - Publicada el 3 Feb. 2011 - Song Jin - The University Of Wyoming Research Corporation D/B/A/ Western Research I Nstitute

Methods and systems to achieve clean fuel processing systems in which carbon ... generation sources, cement **producing** plants, coal refineries, **oil** refineries, ... in higher **assimilation** of CO2 and corresponding **increased** biomass yield.

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A method for increasing the level of free amino acids in ...



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Solicitud - Presentada el 15 Jul. 2010 - Publicada el 6 Jun. 2012 - Harald Köhle - Basf Se

The present invention relates to **method** for **increasing** the level of free amino acids in storage tissues of ...

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Accelerated process for the energy conversion of carbon ...



www.google.com.co/.../CA2712423A1?c... - Traducir esta página

Solicitud - Presentada el 15 Ene. 2008 - Publicada el 24 Jul. 2008 - Mougin Bernard A.J. Stroïazzo - Mougin Bernard A.J. Stroïazzo