

INFORME DE BÚSQUEDA DE PATENTES				
N° de solicitud: 15-304877-00000-0000				
CRITERIOS PARA LA BÚSQUEDA (Anexar pantallazo o reporte en PDF, junto con los boléanos utilizados*. Para el caso de secuencias, anexar alineamientos)				
PALABRAS CLAVE UTILIZADAS		((genipin)/TI AND (colorant)/AB/IW AND (glycine)/TI/AB/IW/DESC/ODES) AND PD <= 2013-05-22 glycine OR aminoacid AND genipin AND dye OR colorant AND /PD<20130522 STAC=(genipin and colorant and glycine) and PD=19000101:20130522 genipin AND glicine AND dye AND polymer		
CLASIFICACIONES UTILIZADAS PARA LA BÚSQUEDA		CIP: C09B 23/04, C09B 67/54, C09B 67/22 CPC:		
DOCUMENTOS CONSIDERADOS RELEVANTES (documentos patentes, literatura no patente, etc...)				
Informes/Base de datos	N° de solicitud/ Autor**	Fecha de Publicación/Presentación (DD/MM/AAAA)	Reiv. afectadas (Con indicación, si procede, de las partes relevantes o números de secuencias)	Categorías especiales de los documentos citados***
SIPI	11033622	18/03/2011		A
	11172221	14/12/2011		A
SIPI (Obligatoria) SIPO USPTO Patbase	15014054	25/01/2015		E
ISR SIPO	Fujikawa (1987)	1987		A
ISR EPOQUENET Patbase	JPS6147167	07/03/1986		A
JPO	JPS53134824	24/11/1978		A
	JPS5781466	21/05/1982		A
	JPS5253934	30/04/1977		A
USPTO	WO2012043173	05/04/2012		A
Orbit Patbase	EP0251063	07/01/1988		A
	US20130115252	09/05/2013		A
EPOQUENET STN	JPH05339134	21/12/1993		A
Patbase	WO17062489	13/04/2017		P
*** Categorías especiales de documentos citados:				
“A” documento que define el estado general de la técnica no considerado como particularmente relevante. “E” solicitud de patente o patente anterior pero publicada en la fecha de presentación internacional o en fecha posterior. “P” documento publicado antes de la fecha de presentación internacional pero con posterioridad a la fecha de prioridad reivindicada.			“X” documento particularmente relevante; la invención reivindicada no puede considerarse nueva o que implique una actividad inventiva por referencia al documento aisladamente considerado. “Y” documento particularmente relevante; la invención reivindicada no puede considerarse que implique una actividad inventiva cuando el documento se asocia a otro u otros documentos de la misma naturaleza, cuya combinación resulta evidente para un experto en la materia.	
**** Indicar entre paréntesis la Autoridad que realizó la búsqueda o el informe preliminar Ejs: EPO, JP, INAPI.				

Literatura no patente **Se incluye entre otros, toda la referencia de la literatura no patente.	Shigeaki Fujikawa, <i>et al.</i> Structure of genipocyanin G1, a spontaneous reaction product between genipin and glycine. Tetrahedron Letters, 1987, Vol: 28, Nr: 40, Page(s): 4699 – 4700.
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Fecha del reporte de búsqueda: 14/08/2018

Solicitante/Titular de la patente	Número de identificación Nombre(s) Apellido(s) ECOFLORA AGRO S.A.S. Suprimir 90045211 ECOFLORA AGRO S.A.S. Suprimir 900452111 ECOFLORA AGRO S.A.S. Suprimir 900452111 ECOFLORA AGRO S.A.S. Suprimir 900452111 ECOFLORA AGRO S.A.S. Suprimir 55257 ECOFLORA AGRO S.A.S. Suprimir 55259 ECOFLORA AGRO S.A.S. Suprimir 830032102 ECOFLORA AGRO S.A.S. Suprimir Mostrar / Ocultar columnas	Apoderado	Buscar
Contacto de la solicitud	Buscar	Inventor	Buscar
Referencia			
Número de solicitud internacional PCT		Fecha de Solicitud Internacional PCT	desde hasta
Número de Publicación Internacional PCT		Fecha de Publicación Internacional PCT	desde hasta
Número de la gaceta		Fecha de la Gaceta	desde hasta
Con/Sin Oposición		Número de Resolución	Cerrar

Número de Publicación Internacional PCT		Fecha de Publicación Internacional PCT	desde hasta
Número de la gaceta		Fecha de la Gaceta	desde hasta
Con/Sin Oposición		Número de Resolución	
Buscar - Limpiar Búsqueda sencilla			

4 Casos asociados

Expediente No.	Título	Figura Característica	Fecha de presentación	Estado(s)	Titular
☐ 11033622	COLORANTE AZUL DERIVADO DEL FRUTO DE LA GENIPA AMERICANA		18 mar 2011	Concedido	ECOFLORA LTDA.
☐ 11172221	MÉTODO DE PRODUCCIÓN DE EXTRACTO DERIVADO DE LAS HOJAS DE SWINGLEA GLUTINOSA		14 dic 2011	Negada	ECOFLORA LTDA.
☐ 15014054	COMPUESTO COLORANTE DERIVADO DE LA GENIPINA DE GENIPA AMERICANA Y GLUCINA		25 ene 2015	Negada	ECOFLORA LTDA.
☐ 15304877	COMPUESTOS DE COLORANTE DERIVADOS DE GENIPINA O MATERIALES QUE CONTIENEN GENIPINA		22 dic 2015	Bajo Examen de Fondo	ECOFLORA LTDA.
Seleccionar todo - Ninguno Mostrar / Ocultar columnas					

STN® Projects Working On – **Untitled1** Welcome, Diana Sanchez Layout Settings STN Help Contact Us Sign Out

CPlus, REGISTRY

Enter your query...

Submit

QUERIES (6) **STRUCTURES (0)** **SAVED (0)**

Expand All | Collapse All

REGISTRY 164

L5 **polymer**
CPlus, REGISTRY 2,688,197
CPlus 3,786,719
REGISTRY

L6 **L4 and L5**
CPlus, REGISTRY 1
CPlus 35
REGISTRY

L6 **COUNTS** **RESULTS**

CPlus (1) **REGISTRY (35)**

Get Substances View: Hits Sort by: Accession Number Display: 25

1. Patent 1993 **Hair dyes** containing aglycons of iridoid glycosides and amino acids

Nozawa, Ryoichi • Kase, Osaki
Kii Kasei KK, Japan (JP)
Jpn. Kokai Tokkyo Koho, pp. 6 *In Japanese*
1994:307072 (DN 120:307072)

Abstract
Hair **dyes**, those are safe to the hair and skin, contain aglycons of iridoid glycosides and amino acids. Human hair was dyed black by the application of a hair-dyeing rinse (pH 4.0) contg. cetostearyl alc. 1.5, squalane 1.0, stearic acid monoglyceride 1.0, trimethylcetostearyl ammonium chloride 2.0, **genipin** 0.2, 1,3-butylene glycol 1.4, Arg 0.8, citric acid, and H₂O to 100.0 wt. %.

Supplementary Terms: hair **dye** iridoid amino acid; aglycon iridoid hair **dye**

Substance Indexing
6902-77-8, **Genipin**
Notes: hair **dyes** contg. amino acids and
Roles: Biological Study (BIOL)

56-40-6, **Glycine**
Notes: hair **dyes** contg. iridoid aglycons and
Roles: Biological Study (BIOL)

106-11-6, Diethylene glycol monostearate
107-88-0, 1,3-Butylene glycol
111-01-3, Squalane
More
Notes: hair **dyes** contg. iridoid aglycons and amino acids and

Selected: 0 | Total: 0

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Username: sic7@patbase.com
Subaccount: none

Menu Search History Session Folder Order Help Logoff

Search 2: STAC=(genipin and colorant and glycine) and PD=19000101:20130522

Results 2

Explore search Edit and resend search

#	Search query	Results	Options
2	STAC=(genipin and colorant and glycine) and PD=19000101:20130522	2	View Browse Hits Optimise more...
1	STAC=(genipin and colorant and glycine)	5	View Browse Hits Optimise more...

Information Shortcuts

Command Reference

- Bibliographic data
- Textual data
- Update commands



Username: sic7@patbase.com
Subaccount: none

Menu Search History Session Folder Order Help Logoff

Search 1: "STAC=(genipin and colorant and glycine)" 1-5 of 5

Display format: Scan Sorted by: Relevance

Print Save/export Snapshot Visual explorer Analytics

Display results

1) Family number: 57879718 (US2014350127A)

Similar • Translate • Full-text • Status • Citations

COLORANT COMPOUNDS DERIVED FROM GENIPIN OR GENIPIN CONTAINING MATERIALS

Abstract: Source: US2014350127A The present disclosure provides **colorant** compounds and methods of isolation of the **colorant** compounds derived from a reaction of **genipin** and an amine. The **colorant** compositions comprise purified compounds (e.g., a purified polymer or a purified dimer) obtained from multiple fractioning by chromatography of the reaction resulting material. The purified polymer or dimer can be used as a **colorant** by itself or in combination with another **colorant** for imparting color to a food, a drug, a cosmetic, a medical device, and textile products.

Probable Assignee: ECOFLORA SAS

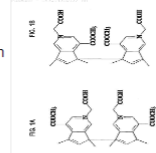
Earliest Publication Date: 20141127

2) Family number: 53677139 (US2013115252A)

Similar • Translate • Full-text • Status • Citations

GENIPIN-RICH MATERIAL AND ITS USE

Abstract: Source: US2013115252A A method of preparing **genipin** rich materials from the fruit of *Garcinia americana* fruit for their use as a cross-linking agent and as a



Internal - Current DB: EPODOC - Search Recording ON

File Edit PDB X-File Options Help

AP - JP19840169264 19840815

DT - I

CT - || STSE (A)
JPS5692792 A 19810727 [] (HASEGAWA CO LTD);
JPS53134824 A 19781124 [] (TAITO KK)

CCI - C09B23/04 ; C09B61/00

CUI - A23L2/58 ; C12G3/04

FI - A23L1/275; A23L5/44; C07D221/04; C09B61/00&A

FT - 4B018/LB08; 4B018/LE05; 4B018/MA07; 4B018/MB04; 4B018/MC01; 4B018/MC04; 4B018/MC05

PA - (A)
SUNTORY LTD

TI - (A)
BLUE DYESTUFF COMPOUND AND PRODUCTION THEREOF

AB - (A)
NEW MATERIAL:A blue dyestuff compound expressed by formula I (R is H or methyl group). US beverages, stable in the state of dissolved in aqueous ethanol solution for a long period, and having a maximum absorption wavelength of about 600nm (half width). PREPARATION: Genipin (compound expressed with glycine in an aqueous solvent, e.g. water or aqueous solution of an alcohol, at about 70-90% about 5-8pH and the resultant reaction product is then subjected to chromatographic treatment of the solvent, etc. to fractionate the reaction product into the compound expressed by formula II (R is methyl).

[SS 10]

Help F2 F3 F4 F5 F6 F7 F8 F9

History - Internal

Database	SS	Status	Results	Query
EPODOC	1		19188 GLYCINE	
	2		2507 AMINOACID	
	3		21570 1 OR 2	
	4		412 GENIPIN	
	5		171647 DYE	
	6		43100 COLORANT	
	7		211011 5 OR 6	
	8		87122281 /PD<20130522	
	9		2 3 AND 4 AND 7 AND 8	

☒ Keep dialog open

☐ Current Database ☐ Show metadata

☒ All Databases ☐ Expand rows (Clustered)

Save as preparation Rank and View Send to Viewer Save as 2

☐ Add to Current WL

Easy search

Menu Filter Explorer

2 results for (genipin)/TI AND (colorant)/AB/IW AND (glycine)/TI/AB/IW/DESC/ODES) AND PD <= 2013

Display

Genipin-rich material and its use

#	Title	Publication number	1st app. date	Applicant/Assignee	Relevance	Litigation
1	Genipin-rich material and its use	US20130115252	2012-11-07	WILD FLAVORS*	100 %	
2	Natural blue dye composition and colorant using the same	EP0251063	1986-06-21	SUNTORY*	55 %	

Filter options

1st application year

After 2015 (0)

2011-2015 (1)

2006-2010 (0)

2001-2005 (0)

Before 2001 (1)

More...

Assignee

SUNTORY (1)

WILD FLAVORS (1)

Litigations

Oppositions

IPC classification

US classification

Process for Preparing Genipin-Rich Extract

Genipa americana

Washing

Peeling

Water or Polar Solvent

Blending to Puree

Filtration on Filter Pressing

Seeds & Solids

Adjust pH to 3.8-4.0

Juice Concentration (Vacuum Distillation)

Non-polar solvent

Second Extraction

Separation

Blue Aqueous Phase

Clear Organic Phase

Solvent Evaporate

Genipin-rich Extract

Displaying records 1 - 2 of 2

Reference is made to the following documents:

- D1 SHIGEAKI FUJIKAWA ET AL: "Structure of genipocyanin G1, a spontaneous reaction product between genipin and glycine", TETRAHEDRON LETTERS, vol. 28, no. 40, 1 January 1987 (1987-01-01), pages 4699-4700, XP055044997, ISSN: 0040-4039, DOI: 10.1016/S0040-4039(00)96601-2
- D2 JP S61 47167 A (SUNTORY LTD) 7 March 1986 (1986-03-07)

5. ☒ The following reference documents are cited in this Office Action (the serial number(s) of which will be used in follow-on examination)

No.	Document number or Document title	publication date (or application date of the conflicting application)
1	CN 104685004A	20130625
2	"Structure of Genipocyanin G1, A Spontaneous Reaction Product Between Genipin and Glycine", Shigeaki Fujikawa 等, Tetrahedron Letters, 第 28 卷第 40 期, 第 4699-4700 页	19870131

- Prior art documents JP S57 - 081466A

JP S53 - 134824A

JP S52 - 053934A

The description of US Patent No. 4347356 Analytica. Chimica Acta, 2009, and Vol. 652, pp. 128-142 CHEMICAL & PHARMACEUTICAL BULLETIN, 1994, and Vol. 4 With restriction of 2, No. 3, and pp. 668 -673 (notes) law or a contract, Some or all of nonpatent literatures that was shown may not be sent.

This record of the result of prior art search does not constitute the reasons for refusal.

<Suggestions in amending>

[1] Claims 1, 5, 32-34, 40, 45, 50, 54-55, 59, 63, 67, 72 and 114-120 are rejected under 35 U.S.C. 102(a)(2) as being anticipated by Echeverry (US 2013/0345427, of record).