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N° de solicitud: 16147105				
CRITERIOS PARA LA BÚSQUEDA (anexar pantallazo o reporte en PDF, junto con los boléanos utilizados**)				
Palabras clave utilizadas		Injectable formulations; Ethanol; Sesame oil; Immune Response Modifier.		
CLASIFICACIONES UTILIZADAS PARA LA BÚSQUEDA		CIP: A61K31/4178; A61K9/16 CPC (Opcional):		
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)	Categoría especiales de los documentos citados**
PATBASE; ORBIT; ESPACENET y USPTO	US2013230578	05/Septiembre/2013	1 a 13 NIVEL INVENTIVO	Y
	WO2011112669	15/Septiembre/2011	1 a 13 NIVEL INVENTIVO	Y
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Literatura no patente *Se incluye entre otros, toda la referencia de la literatura no patente.	--
Fecha del reporte de búsqueda:	10/10/2018

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3	Ethanol	197919	View Browse Hits Optimise more...
2	Injectable formulations	238	View Browse Hits Optimise more...
1	STAC=(Sesame oil)	13392	View Browse Hits Optimise more...

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1) Family number: 59233344 (US2016271259A)

Similar Translate Full-text Status Citations

Title: [EN] **SESAME OIL** BASED **INJECTION FORMULATIONS**

Abstract: Source: US2016271259A [EN] **injectable formulations** comprising **ethanol**, **sesame oil**, and an **Immune Response Modifier** compound are disclosed. Methods of making the formulations and methods of using the formulations for treatment of a disease in a subject, e.g., neoplastic disease, comprising injecting the formulations into a subject in need of treatment, are also provided.

Classifications: Classification Explorer**International (IPC class):** A61K A61K31/437 A61K31/4745 A61K47/10 A61K47/22 A61K47/44 A61K9/00 A61K9/08 A61K9/10 A61K9/10 A61P17/02 A61P17/12 A61P31/12 A61P31/20 A61P31/22 A61P35/00 A61P35/02 A61P37/02 A61P37/04

C07D471/04 (Advanced/Invention);

C07D471/04 (Advanced/Non-invention);

A61K (Subclass/Invention)

CPC: C07D471/04 A61K47/10 A61K31/4745 A61K47/44 A61K9/0019 A61K31/437**US:** 424/283.1**Family:** Family Explorer

ORBIT

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Display Select Title Publication number 1st app. date Applicant/Assignee Litigation

#	Title	Publication number	1st app. date	Applicant/Assignee	Litigation
1	Sesame oil based injection formulations	CA2926736	2014-10-30	3M*	

Injectable formulations comprising ethanol, sesame oil, and an Immune Response Modifier compound are disclosed. Methods of making the formulations and methods of using the formulations for treatment of a disease in a subject, e.g., neoplastic disease, comprising injecting the formulations into a subject in need of treatment, are also provided.

Sesame oil based injection formulations

ESPACENET

Documents cited:	Search	[E] * WO2016019232 (VASILAKOS JOHN [US], et al) [E] 1-30 * examples 1-3 * * pages 32-33, paragraph Materials *;
		[A] * WO2005001022 (3M INNOVATIVE PROPERTIES CO [US], et al) [A] 1-30 * claims 1-15, 18, 20-22, 24, 27 *;
		[A] * WO2006074045 (3M INNOVATIVE PROPERTIES CO [US], et al) [A] 1-30 * abstract *
		[XP] - M. SINGH ET AL, "Effective Innate and Adaptive Antimelanoma Immunity through Localized TLR7/8 Activation", THE JOURNAL OF IMMUNOLOGY, US, (20140924), vol. 193, no. 9, doi:10.4049/jimmunol.1401160, ISSN 0022-1767, pages 4722 - 4731, XP055290072 [XP] 1-30 * abstract * * page 4723, column I, paragraphs 3M-052 and its vehicle *
		DOI: * http://dx.doi.org/10.4049/jimmunol.1401160
		[A] - DMITRI SMIRNOV ET AL, "Vaccine adjuvant activity of 3M-052: An imidazoquinoline designed for local activity without systemic cytokine induction", VACCINE, ELSEVIER, AMSTERDAM, NL, vol. 29, no. 33, doi:10.1016/j.vaccine.2011.05.061, ISSN 0264-410X, (20110519), pages 5434 - 5442, (20110525), XP028240658 [A] 1-30 * abstract * * page 5436, paragraphs Formulation of M-052 in liposomes *
		DOI: * http://dx.doi.org/10.1016/j.vaccine.2011.05.061
International search		[Y] * US2013230578 (WIGHTMAN PAUL D [US]);
		[Y] * WO2011112669 (CENTOCOR ORTHO BIOTECH INC [US], et al);

2. Citations and explanations:

Claims 1-3 lack an inventive step under PCT Article 33(3) as being obvious over US 2013/0230578 A1 (Wightman) in view of WO 2011/112669 A1 by Hill et al. (hereinafter "Hill").

Regarding claim 1, Wightman teaches a pharmaceutical formulation suitable for injection, comprising: sesame oil (para [0056]), and an immune response modifier compound of formula (structure shown in the claim), wherein: X is alkylene having up to 6 carbon atoms optionally interrupted or terminated by -O- (para [0005] and claim 1); R2 is hydrogen (para [0005] and claim 1); Y is -C(O)- (para [0005] and claim 1); R1 is a linear aliphatic group having 11-23 carbon atoms (para [0005] and claim 1); and R is hydrogen (para [0005] and claim 1); or a pharmaceutically acceptable salt thereof (para [0005] and claim 1). Wightman does not teach ethanol, but does teach the formulation containing an immune response modifier (para [0005] and claim 1). Hill teaches an injectable formulation (pg 23, ln 21 to pg 24, ln 15) that uses sesame oil and ethanol as reduced viscosity vehicle (pg. 9 in 2-8 and in 11-15; pg 19-20, Example 1; claims 1-3). It would have been obvious to one of ordinary skill in the art to combine the compounds of Wightman and the excipients of Hill to make a formulation containing both sesame oil and ethanol as a reduced viscosity vehicle, in order to increase the bioavailability of the immune response modifier composition and to reduce viscosity of the material during injection, because both Wightman and Hill teach formulations that can be administered by injection to a subject.

Regarding claim 2, Wightman teaches the formulation of claim 1 containing sesame oil and the immune response modifier, but does not teach the formulation of claim 1, wherein the ethanol is present in a concentration of from about 1 wt-% to about 9 wt-%. Hill teaches formulations wherein sesame oil and ethanol are present in a concentration of from 1 wt-% to about 9 wt-% (pg. 13 ln 6-9; pg. 18 ln 12-14; pg. 19 in 30-33; pg. 20 Table 3; claims 2-5). It would have been obvious to one of ordinary skill in the art to combine the compounds of Wightman and the excipients of Hill to make a formulation containing both sesame oil and ethanol as a reduced viscosity vehicle, in order to increase the bioavailability of the immune response modifier composition and to reduce viscosity of the material during injection, because both Wightman and Hill teach formulations that can be administered by injection to a subject.

Regarding claim 3, Wightman teaches the formulation of claim 1 containing sesame oil and the immune response modifier, but does not teach the formulation of claim 1, wherein the ethanol is present in a concentration of from about 1 wt-% to about 9 wt-%. Hill teaches formulations wherein the ethanol is present in a concentration of from 1 wt-% to about 9 wt-% (pg. 18 ln 12-14; pg. 19 in 30-33; pg. 21 Table 4; claims 2-5). It would have been obvious to one of ordinary skill in the art to combine the compounds of Wightman and the teachings of Hill to make a formulation containing both sesame oil and ethanol as a reduced viscosity vehicle, in order to increase the bioavailability of the immune response modifier composition and to reduce viscosity of the material during injection, because both Wightman and Hill teach formulations that can be administered by injection to a subject.

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SESAME OIL BASED INJECTION FORMULATIONS

200242-US-PCT

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12-09-2016	N572	Response - Re: Informal Power of Attorney (PTOL-308)	PROSECUTION	1	☐
12-06-2016	PA..	Power of Attorney	PROSECUTION	1	☐
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12-06-2016	WFEE	Fee Worksheet (SB06)	PROSECUTION	2	☐
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