SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

RAD: 14-196307- -2 **FECHA**: 2016-04-28 09:42:50
DEP: 2020 DIRECCION DE NUEVAS CREACIONES **EVE:** 379 FASE NACIONAL INCLUIDO CAPITULO II
TRA: 11 PCT-PATENTE DE INVENCION CAPITULOS I Y II **FOLIOS**: 12
ACT: 519 TRASLADOINFORME

DIRECCIÓN DE NUEVAS CREACIONES

2020
Bogotá, D.C.,

Abogado(a)/Señor(a)
HUMBERTO RUBIO CAMACHO

Asunto: Radicación: 14-196307- -2
Trámite: 11
Evento: 379
Actuación: 519
Oficio: 5032
Folios: 12

Patente de Invención	X			Patente de Modelo de Utilidad	
Vía Nacional					
Vía PCT (Fase Nacional)	X	Capítulo I		Capítulo II	X
No. Solicitud Internacional	PCT/EP2013/052687				
Fecha de Presentación Internacional	11/02/2013				

Como resultado del examen de fondo realizado, con fundamento en el Artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina, se comunica:

1. Documentos estudiados

Descripción:	Rad. N° 14-196307-00000-0000	05/septiembre/2014
Reivindicaciones:	Rad. N° 14-196307-00000-0000	05/septiembre/2014
Dibujos:	Rad. N° 14-196307-00000-0000	05/septiembre/2014
Prioridad:	US 61/597.950	13/febrero/2012
	EP 12157218.4	28/febrero/2012

2. Análisis de la Prioridad

Se acepta la reivindicación de prioridad porque ésta solicitud fue presentada dentro del plazo establecido (Art. 9 D 486) y su contenido técnico corresponde con el de la prioridad reivindicada.

3. Objeto de la invención

De acuerdo con lo establecido en el numeral 1.2.2.2 del capítulo primero del Título X de la Circular Única para efectos del examen de patentabilidad, se tendrá en cuenta la tasa pagada por la solicitante al momento de comenzar el examen para las reivindicaciones adicionales; esto es que cuando la solicitud contenga más de diez (10) reivindicaciones

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y no se haya pagado la tasa complementaria, sólo se estudiarán las cubiertas por la tasa pagada. En el presente caso se estudiarán las reivindicaciones 1 a 18 del capítulo reivindicatorio (Radicado N°. 14-196307-00000-0000).

Título de la solicitud: “Resistencia mejorada a la corrosión cuando se utilizan agentes de quelación en equipo que contiene acero al carbono” (Radicado N°. 14-196307-00000-0000).

El problema planteado en esta solicitud consiste en la necesidad de proveer sistemas y composiciones efectivos para tratar la corrosión de los componentes de acero al carbono en formaciones subterráneas.

Para resolver este problema técnico la solicitud en estudio proporciona soluciones que contienen ácido glutámico en ácido N, N-diacético, la cual se pone en contacto con el equipo que contiene acero de carbono, que se encuentra en las formaciones subterráneas, a más de 100°C con un inhibidor de corrosión en pequeñas cantidades (<3% en volumen).

El objeto de la presente solicitud se relaciona con la Clasificación Internacional de Patentes (CIP): C23F 11/04, C09K 8/54, C09K 8/74, C11D 3/33, C23F11/14, C23G 1/08.

4. Reivindicaciones relativas a un uso o a un segundo uso (Art 14 y 21 D 486)

Las reivindicaciones 1 a 14 no son patentables, de acuerdo con el Art 14 D486, ya que indican el uso de las soluciones de ácido glutámico, al mencionar: “*El uso de las mismas al estar en contacto con un equipo de acero al carbono"*, lo cual no es una característica técnica que defina a la invención.

5. De la solicitud de patente

Título

El título “Resistencia mejorada a la corrosión cuando se utilizan agentes de quelación en equipo que contiene acero al carbono” si bien está relacionado con el objeto de la solicitud, sin embargo, se sugiere a la solicitante ajustarlo de acuerdo a la descripción y reivindicaciones presentadas, por ejemplo: “Una composición constituida por soluciones ácidas de agentes de quelación GLDA que mejoran la resistencia a la corrosión del acero al carbono y sistema compuesto por elementos de acero al carbono y soluciones ácidas de agentes de quelación GLDA”.

Reivindicaciones (Art 30 D 486, Art 22 PCT)

Durante el examen de las 18 reivindicaciones se encontraron las siguientes faltas de claridad:

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La reivindicación 1, que tiene por objeto un uso, sugiere un método, es preciso recordar que la forma correcta de definir un método, es a través de la secuencia lógica de pasos con sus condiciones técnicas.

Los términos de las reivindicaciones 1, 6-8, 14-15 *"por lo menos", "uno o más", "o más" "más de",* son imprecisos, por lo cual no permite distinguir la invención del estado de la técnica. Se sugiere sustituirlo por un término preciso o un rango concreto.

En las reivindicaciones 3-7, 11 y 17 los términos "*solución acídica", "inhibidor de corrosión", "la limpieza con ácido", "alcoholes", "glicoles y solventes orgánicos adicionales o solventes mutuos", "jabones, tensoactivos, agentes de dispersión, emulsificadores, aditivos de control de pH, tales como ácidos o bases adicionales, biocidos/bactericidas, suavizantes de agua, agentes de blanqueamiento, enzimas, abrillantadores, fragancias, agentes anti-percudido, agentes anti-espuma, agentes antifango, inhibidores de corrosión, intensificadores de inhibidor de corrosión, "agentes de viscosidad", agente de humectación, agentes de desviación, barrenderos de oxígeno, portadores de fluidos, aditivos de pérdida de fluidos, reductores de fricción, estabilizadores, modificadores de reología, agentes de gelificación, inhibidores de sarro, interruptores, sales, salmueras, partículas, reticuladores, sustitutos de sal, modificadores de permeabilidad relativa, barredores de sulfuro, fibras, nanopartículas", "una solución",* son términos generales los cuales aunque corresponden a términos conocidos, abarcan una extensa gama de posibilidades; sugiriendo de forma imprecisa que la protección se extiende a otras posibles variaciones, se propone realizar las modificaciones respectivas utilizando términos que describan de forma menos general, definir claramente los rangos a aquellos que tienen un efecto técnico demostrado.

En las reivindicaciones 6 y 14 la expresión: *"preferentemente",* precediendo una característica no es limitativo, porque hace opcional a la característica y no limita el alcance de la reivindicación. Se sugiere incluir las características opcionales o preferentes en una reivindicación dependiente.

Se sugiere revisar la redacción y/o traducción de los términos de las reivindicaciones 3, 11, 7, 8 y 17 "*acídica*", "*biocidos*", "*el acero al carbono es por lo menos uno de los metales de Mn o Cr*" y "*acero al carbón*" respectivamente.

Las reivindicaciones 1, 2, 8 y 10 mencionan: "*para tratar formaciones subterráneas*", "*el equipo que contiene acero de carbono es limpiado o despojado de sarro*", siendo estas características técnicas funcionales las cuales permiten la mejor compresión de la materia reivindicada, sin embargo, se aclara que al ser dichas características funcionales, no se consideran características técnicas esenciales, de manera que no le pueden dar novedad o nivel inventivo a la invención.

Se recomienda corregir la nomenclatura del ácido "*N,N-acético*" a "*N,N-diacético*" según lo mencionado en la descripción y los posibles sustituyentes que puede tener el dímero. Ergo el caso de "*acídico/a*" por "*ácido/a*".

La reivindicación 15 se encuentra mal caracterizada, se le recuerda que un sistema se define como un conjunto de aparatos y/o parte de estos, que cooperan entre sí para

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lograr un propósito lo cual no sucede en este caso. Se sugiere realizar las aclaraciones pertinentes.

Descripción (Art 28 D 486)

En el campo de la invención se menciona que la solicitud se refiere a un método para reducir la corrosión, sin embargo, no hay una secuencia de etapas de proceso que pueda corroborar dicha afirmación.

Se sugiere cambiar "*silicón*" por silicio ya que es el término correcto para referirse a Si como componente minoritario del acero al carbono.

Se recomienda revisar la redacción de todo el documento y mejorar la redacción en fragmentos como: *"un efecto secundarios de corrosión más reducido al mínimo sobre un rango amplio de pH", "En todavía otra modalidad", "Las películas orgánicas que las dejan mojadas en agua", "las emulsiones y la obstrucción por partículas son eliminados", "que para el cupón de prueba misma", "a una temperatura de 250°C (aproximadamente 120°C)".*

Se recomienda cambiar las unidades del eje Y de la figura 1 a las correspondientes al Sistema Internacional de Unidades, según el decreto 3460 de 1984[1] donde se dispuso que se debe adoptar en el país el Sistema Internacional de Unidades (SI) como sistema obligatorio. Por lo tanto, se deben unificar las unidades de viscosidad al sistema internacional con su correcta nomenclatura.

6. Determinación del Estado de la Técnica

El estado de la técnica se determinó con base en la fecha de presentación de la solicitud de prioridad: 13 de febrero de 2012 y consultadas las fuentes con que se cuenta, se encontraron los siguientes documentos que anticipan el objeto de esta solicitud:

Ítem	Documento	Título	Fecha de Publicación*
D1	Art.1*	"An environmentally friendly stimulation fluid for high-Temperature Applications"	31/Marzo/2011
D2	CN102051622	"Carbon steel acidizing corrosion inhibitor"	11/Mayo/2011
D3	Art.2**	"12-Aminododecanoic acid as a corrosion inhibitor for carbon steel"	24/Febrero/2011
D4	CN101412565	"Efficient scale corrosion inhibitor for carbon steel system"	22/Abril/2009

*LEPAGE, J.N. et al. "An environmentally friendly stimulation fluid for high-Temperature Applications". SPE Journal. Págs. 104-110. Marzo 2011.
**GHAREBA, Saad, OMANOVIC Sasha. "12-Aminododecanoic acid as a corrosion inhibitor for carbon Steel". Electrochimica Acta 56 (2011) Págs.3890-3898.

1 Decreto 3460 de 1984, artículo 1 "Adoptar el Sistema Internacional de Unidades, SI, como sistema obligatorio de unidades en materia de metrología en el territorio de la República de Colombia

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El documento D1 divulga una composición GLDA en ácido N,N-diacético la cual tiene un efecto inhibidor de corrosión en pozos profundos (Resumen).

El documento D2[2] revela un inhibidor de corrosión para acero al carbono que comprende sales de amonio en una disolución ácida de HCl o HCl y ácido acético (Resumen).

El documento D3 presenta el efecto inhibitorio del ácido 12-aminododecanoico a la corrosión del acero al carbono en ácido clorhídrico a diferentes pH y temperaturas sobre períodos de tiempo prolongados (Resumen).

El documento D4[3] divulga un inhibidor de corrosión de alta eficiencia a gran escala para un sistema de acero al carbono y relaciona el agente para usarse en la recirculación de agua de enfriamiento industrial (Resumen).

7. Examen de Patentabilidad (Art 14 D486)

El siguiente examen de patentabilidad se realizó teniendo en cuenta las objeciones señaladas en el numeral 4 de la presente comunicación.

Nivel Inventivo (Art. 18 D486)

La reivindicación 1 consiste en: *"El uso de las soluciones que contienen:*" (Ver Pág. 23 del Radicado Nº. 14-196307-00000-0000).

Comparación de las características técnicas esenciales, con las del estado de la técnica:

Características esenciales	D1	D2
El uso de las soluciones que contienen ácido glutámico de ácido N,N-acético o una sal del mismo (GLDA) y/o ácido N,N-acético de metilglicina o una sal del mismo (MGDA)	El ácido L glutámico de ácido N,N-diacético es un agente quelante estimulante en tratamientos de pozos (Pág.104, Resumen).	Una composición de un inhibidor de base Mannich que puede mezclarse con ácido clorhídrico y acético (Párr.001). No menciona una solución de ácido glutámico en N,N-diacético.
en donde, durante dicho uso, la solución está en contacto con el equipo que contiene acero de carbono	El potencial de las soluciones GLDA se probó en láminas de acero SAE-1020 a 70°C (Pág. 105, Experimentos). No menciona que la temperatura de tratamiento es de por lo menos 100°C.	Un test de corrosión se aplica sobre el acero P-110 (Párr.0022).
y en donde la temperatura durante el tratamiento es de por lo menos 100°C.		La temperatura de acidificación y de inhibición de corrosión es de 140°C (Resumen).

2 https://worldwide.espacenet.com/publicationDetails/biblio?CC=CN&NR=102051622A&KC=A&FT=D&ND=3&date=20110511&DB=EPODOC&locale=en_EP
3 https://worldwide.espacenet.com/publicationDetails/biblio?II=0&ND=3&adjacent=true&locale=en_EP&FT=D&date=20090422&CC=CN&NR=101412565A&KC=A

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El documento D1 se considera el estado de la técnica más cercano a la invención definida en la reivindicación 1 porque divulga una composición GLDA en ácido N,N-diacético la cual tiene un efecto inhibidor de corrosión en pozos profundos (Resumen).

La diferencia entre la invención, definida en la reivindicación 1 y la composición divulgada en D1 es que este último no menciona que la temperatura del tratamiento sea de más de 100°C.

No hay evidencia de un efecto técnico inesperado desde que la temperatura de la solución ácida de 100°C sea la que corresponde al ambiente en las formaciones subterráneas (Pág.12, Líneas 5-9) y D1 soluciona el problema técnico anticipando que la matriz ácida crea canales de flujo de la formación a la perforación (Pág. 104, Introducción).

Por lo tanto, el problema técnico objetivo que pretende resolver esta invención se puede formular así: ¿Cómo modificar de forma alternativa la composición inhibidora conocida en D1?

Sin embargo, en el documento D2 está divulgado que la temperatura de acidificación y de y de inhibición de corrosión es de 140°C (Resumen). Además se facilita el uso de este tipo de temperaturas ya que las soluciones de GLDA son térmicamente estables hasta 177°C (D1- Pág. 105).

En consecuencia, la persona del oficio normalmente versada en la materia, incluiría una temperatura de más de 100°C del documento D2 en la composición divulgada en el documento D1 para llegar así al objeto de la reivindicación 1 de la solicitud. Por lo cual se considera obvia.

Asimismo el documento D1 divulga las características de las reivindicaciones dependientes así:

- Reivindicación 3: A un pH menor a 4, la solubilidad de GLDA a largo plazo se asegura hasta del 10%(p/p) como ácido (Pie de figura 2).
- Reivindicación 4: El bajo contenido de agua del GLDA ofrece una gran flexibilidad en su uso en aplicaciones petroleras tales como estimulación, limpieza de tortas de fluidos de perforación y remoción de escamas (Pág. 107).
- Reivindicación 5: Soluciones acuosas hasta del 40% de GLDA son posibles a un pH de 2 (Pág. 109 – Conclusiones).

Asimismo el documento D2 divulga las características de las reivindicaciones dependientes así:

- Reivindicación 3: Se usan soluciones de ácido clorhídrico y acético (Párr.0001).
- Reivindicación 5: Se mezcla una solución de HCl al 36,5% con la base inhibidora Mannich (Párr. 0018).
- Reivindicación 6: Los inhibidores se vierten de un 1-3% directamente a la solución acidificada. (Párr.0020).
- Reivindicación 7: Se agrega un surfactante (Párr. 0019).

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Ahora la reivindicación 8 que consiste en: *"El uso de las soluciones que contienen:*"(Ver Pág. 24 del Radicado Nº. 14-196307-00000-0000).

Comparación de las características técnicas esenciales, con las del estado de la técnica:

Características esenciales	D1	D3
El uso de las soluciones que contienen ácido glutámico de ácido N,N-acético o una sal del mismo (GLDA) y/o ácido N,N-acético de metilglicina o una sal del mismo (MGDA)	El ácido L glutámico de ácido N,N-diacético es un agente quelante estimulante en tratamientos de pozos (Pág.104, Resumen).	Se prepararon soluciones corrosivas diluyendo ácidos concentrados (Pág,3891, Numeral 2.1) Se usó un inhibidor de corrosión de ácido 12-aminododecanoico (AA) (Pág.3890, Numeral 2.1)
en donde, durante dicho uso, la solución está en contacto con el equipo que contiene acero de carbono	El potencial de las soluciones GLDA se probó en láminas de acero SAE-1020 a 70°C (Pág. 105, Experimentos)	Se obtuvieron datos de pérdidas de peso de muestras de acero al carbono inmersas en HCl con la presencia de varias concentraciones del inhibidor (Pie de Tabla 4)
en donde el acero de carbono es por lo menos uno de los metales de manganeso o cromo presente en una cantidad del 0.75% por peso o más sobre el peso de la aleación de acero total.	No menciona	El contenido de Mn del acero al carbono fue de 0,60-0,90%(p/p) (Tabla 1)

El documento D1 se considera el estado de la técnica más cercano a la invención definida en la reivindicación 1 porque divulga una composición GLDA en ácido N,N-diacético la cual tiene un efecto inhibidor de corrosión en pozos profundos (Resumen).

La diferencia entre la invención, definida en la reivindicación 8 y la composición divulgada en D1 es que este último no hace mención del contenido de Mn o Cr en el acero al carbono.

No se evidencia un efecto técnico inesperado frente al contenido de Mn o Cr, desde que la aplicación (estampados, forjas, tubos sin uniones, etc) a la cual el acero al carbono va a ser usado depende de dicho contenido. Toda vez que el documento D1 ya ha solucionado el problema técnico al proveer una solución de GLDA para prevenir la precipitación de niveles del ion férrico en ácidos que puede ser usada en pozos profundos (Resumen)

Por lo tanto, el problema técnico objetivo que pretende resolver esta invención se puede formular así: ¿Cómo modificar la composición inhibidora de GLDA conocida en D1?

Sin embargo, en el documento D3 está divulgado que el contenido de Mn del acero al carbono se encuentra dentro del rango 0,60-0,90% (p/p). De tal manera, que si se requieren probar aceros con un contenido de más del 0,75% la solución al problema técnica estaría inmersa en un proceso de optimización[4] que contemplaría medir y

4 Perry Manual del Ingeniero Químico. Tomo I. Sección 2. Sexta edición. 1992.

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discriminar el contenido de Mn en las muestras de acero que han de recibir tratamiento, lo cual se encuentra dentro de la práctica habitual de la persona versada en la materia que trabaja en el campo técnico específico.

En consecuencia, la persona del oficio normalmente versada en la materia, incluiría un contenido de Mn mayor al 0,75% del documento D3 en la composición divulgada en el documento D1 para llegar así al objeto de la reivindicación 8 de la solicitud. Por lo cual se considera obvia.

Asimismo el documento D1 divulga las características de las reivindicaciones dependientes así:

- Reivindicación 11: A un pH menor a 4, la solubilidad de GLDA a largo plazo se asegura hasta del 10%(p/p) como ácido (Pie de figura 2).
- Reivindicación 12: El bajo contenido de agua del GLDA ofrece una gran flexibilidad en su uso en aplicaciones petroleras tales como estimulación, limpieza de tortas de fluidos de perforación y remoción de escamas (Pág. 107).
- Reivindicación 13: Soluciones acuosas hasta del 40% de GLDA son posibles a un pH de 2 (Pág. 109 – Conclusiones).

Asimismo el documento D3 divulga las características de las reivindicaciones dependientes así:

- Reivindicación 11: Se prepararon soluciones de AA en soluciones de HCl de diferentes concentraciones (Pág. 3896, Numeral 3.8).
- Reivindicación 13: Se usó un inhibidor de corrosión de ácido 12-aminododecanoico (AA) (Pág.3890, Numeral 2.1).
- Reivindicación 14: Se obtuvieron pérdidas de peso en muestras de acero al carbono (CS por sus siglas en inglés) inmersas en 0,5M HCl en presencia de diferentes concentraciones (0-4mM) de AA (Tabla 4) Correspondientes a 107,5-860mg/L es decir, un porcentaje de 0,01-0,09%(p/v).

La reivindicación 9 es afectada con el conocimiento del técnico, el cual sabe que en aplicaciones oleoquímicas los aceros típicos de la industria al menos son: N-80, P-110, Q-125, J55 o C-95[5].

5. Advanced Well Completion Engineering, 3ra Edición, 2011. Capítulo 11 “Oil and Gas Well Corrosion and Corrosion Prevention”.Pág.647.

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Ahora la reivindicación 15 que consiste en: *"Un sistema que contiene:"* (Ver Pág. 25 del Radicado Nº. 14-196307-00000-0000).

Comparación de las características técnicas esenciales, con las del estado de la técnica:

Características esenciales	**D4**	**D1**
Un sistema que contiene un material que contiene acero de carbono en contacto	Una clase de sistema de acero al carbono y un inhibidor de corrosión (Párr.001).	No menciona
con una solución que contienen ácido glutámico de ácido N,N-diacético o una sal del mismo (GLDA) y/o ácido N,N-diacético de metilglicina o una sal del mismo (MGDA),	El inhibidor de corrosión contiene gluconato de sodio (Párr.001). No menciona al ácido glutámico de ácido N,N-diacético.	El potencial de las soluciones GLDA en ácido N,N-diacético se probó en láminas de acero SAE-1020 a 70°C (Pág. 105, Experimentos)
en donde la solución tiene una temperatura de 100C o el acero de carbono es un acero de carbono en donde por lo menos uno de los metales es manganeso o cromo presente en una cantidad del 0.75% por peso o más sobre el peso de la aleación de acero total.	No menciona	

El documento D4 se considera el estado de la técnica más cercano a la invención definida en la reivindicación 15 porque divulga un sistema de acero al carbono que contiene un inhibidor de corrosión de alta eficiencia a gran escala para (Resumen).

La diferencia entre la invención, definida en la reivindicación 15 y el sistema divulgado en D4 es que este último no menciona que la solución inhibidora de corrosión sea de ácido glutámico de ácido N, N-diacético ni que la temperatura del tratamiento sea de más de 100°C ni opcionalmente el contenido de Mn o Cr en el peso de la aleación de acero al carbono.

El efecto que logra incluir el ácido glutámico de ácido N,N-diacético es que mejora los efectos en la inhibición de corrosión de metales como el acero al carbono con respecto a otros agentes quelantes como el EDTA o ácido cítrico y es biodegradable. Por otro lado, no hay evidencia de un efecto técnico sobresaliente desde que la temperatura de la solución ácida de 100°C sea la que corresponde al ambiente en las formaciones subterráneas (Pág.12, Líneas 5-9).

Por lo tanto, el problema técnico objetivo que pretende resolver esta invención se puede formular así: ¿Cómo modificar el sistema de acero al carbono conocido en D4 de tal manera que incremente el poder inhibitorio a la corrosión?

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Sin embargo, en el documento D1 está divulgado que es posible tratar formaciones subterráneas con soluciones que contengan ácido glutámico disueltas en ácido N,N-diacético (GLDA) y como se afirma en la invención, es conocimiento del técnico que las temperaturas en formaciones de petróleo y gas superen los 100°C (212°F)[6]. Siendo posible a partir de 70°C realizar dicho tratamiento hasta 177°C punto en el cual está comprobado que las soluciones de GLDA todavía son térmicamente estables (D1- Pág. 105).

En consecuencia, la persona del oficio normalmente versada en la materia, estaría motivada a incluir soluciones de ácido glutámico en ácido N,N-diacético a una temperatura de tratamiento mayor a 70°Cdel documento D1, incluso 100°C o más en el sistema de acero al carbono divulgado en el documento D4 para llegar así al objeto de la reivindicación 15 de la solicitud. Por lo cual se considera obvia.

Asimismo el documento D4 divulga las características de las reivindicaciones dependientes así:

- Reivindicación 16-17: Las pruebas se hicieron en muestras de acero ordinario (Ejemplos 1-8).

La reivindicación 18 es afectada con el conocimiento del técnico, el cual sabe que el aumento del contenido de C hace que el acero sea más resistente al ataque de ácidos[7] y también conoce que el acero al carbono usado en la industria petrolera tiene un contenido de carbono comúnmente menor al 0,8%[8].

8. Conclusión

Los requisitos de Patentabilidad de la presente solicitud están afectados así:

Ítem	Documento	Reivindicaciones afectadas	Requisito que afecta
D1	Art.1	1 a 5, 8 a 13	Nivel Inventivo
D2	CN102051622	1, 3 a 7	Nivel inventivo
D3	Art.2	8 a 10, 11, 13 y 14	Nivel inventivo
D4	CN101412565	15 a 18	Nivel Inventivo

6 Fig. 3 Definition of an average geothermal gradient. http://petrowiki.org/Reservoir_pressure_and_temperature
7 Sección Ácidos.http://rua.ua.es/dspace/bitstream/10045/8237/1/CorrTema11.pdf
8 Advanced Well Completion Engineering, 3ra Edición, 2011. Capítulo 11 “Oil and Gas Well Corrosion and Corrosion Prevention”.Pág.640.

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Señor ciudadano la entidad le ofrece los siguientes canales para hacer seguimiento a su solicitud así:
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En cumplimiento del artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina, se le indica que debe dar respuesta dentro del término de sesenta (60) días contados a partir de la fecha de notificación de la presente comunicación. En caso de no dar respuesta al presente requerimiento, o si a pesar de la respuesta subsistieran los impedimentos para la concesión, se denegará la patente.

Si como respuesta a este requerimiento el solicitante llegara a modificar: i) el capítulo reivindicatorio, ii) la descripción de la invención a proteger, iii) o presente un nuevo capítulo reivindicatorio, y desee que se realice un nuevo examen de patentabilidad a esta modificación, no deberá pagar la tasa de modificación voluntaria pero sí la correspondiente a la tasa de examen de patentabilidad. En todo caso, el número de requerimientos por no patentabilidad estará supeditado a que el término del estudio de patentabilidad no sea superior a 18 meses, contados desde la publicación de la solicitud de patente de invención. Adicionalmente, se le recuerda al solicitante que si como respuesta a este requerimiento llegara a modificar el capítulo reivindicatorio y éste contenga más de diez (10) reivindicaciones deberá pagar la tasa por reivindicación adicional.

Notifíquese el presente oficio conforme a lo dispuesto en el numeral 5.2, literal e), del capítulo quinto del título primero de la Circular Única No. 10 de 2001.

JOSÉ LUIS SALAZAR LÓPEZ
Director de Nuevas Creaciones (c)

El anterior requerimiento fue notificado por fijación en lista, de fecha 2016-05-03

Elaboró: Natalia Estefania Paez Coy
Revisó: Olga Ximena Benavides Salazar

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Estefania Paez

Search history

Search 1: TAC=(glutamic and acid and acetic and steel) and PD=19400101:20120201 (Results 38)

1) Family number: 19581892 (GB646049A)

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Title: Improvements in or relating to the preparation of dehydrated castor-oil

Abstract: Source: GB646049A Dehydrated castor oil is manufactured by heating castor oil whilst adding thereto strong sulphuric **acid** in solution in a diluent, the sulphuric **acid** solution being added in increments continuously or discontinuously during the dehydration process. An antioxidant is preferably present in the reaction mixture and is advantageously added with the sulphuric **acid** solution. The dehydration is preferably effected at a temperature of from 210 DEG to 550 DEG F. The diluents specified comprise methyl alcohol, ethyl alcohol, butyl alcohol, **acetic acid**, acetone and castor oil itself, or the diluent may not be a common solvent for both the sulphuric **acid** and the castor oil, such as water. The antioxidants specified comprise orthophosphoric **acid**, b -naphthol, phenol, citric **acid**, maleic anhydride, hydroquinone, **glutamic acid**, chlorophyll and glycerine, alone or in mixtures. The dehydration is preferably effected in a vessel having glass or stainless **steel** walls and an inert gas, such as carbon dioxide, is preferably blown through the castor oil during the reaction. Atmospheric, sub-atmospheric, or super-atmospheric pressures may be used.ALSO:Dehydrated castor oil is manufactured by heating castor oil whilst adding thereto strong sulphuric **acid** in solution in a diluent, the sulphuric **acid** solution being added in increments continuously or discontinuously during the dehydration process. An antioxidant is preferably present in the reaction mixture and is advantageously added with the sulphuric **acid** solution. The dehydration is preferably effected at a temperature of from 210 DEG to 550 DEG F. The dehydrated castor oil may be subsequently bodied by continuing the heating of the oil at a higher temperature. The diluent may be a common solvent for the castor oil and sulphuric **acid** and such diluents specified comprise methyl alcohol, ethyl alcohol, butyl alcohol, **acetic acid**, acetone and castor oil itself, or the diluent may not be a common solvent for both the sulphuric **acid** and the castor oil, such as water. The antioxidants specified comprise orthophosphoric **acid**, b -naphthol, phenol, citric **acid**, maleic anhydride, hydroquinone, **glutamic acid**, chlorophyll and glycerine, alone or in mixtures. The dehydration is preferably effected in a vessel having glass or stainless **steel** walls and an inert gas, such as carbon dioxide, is preferably blown through the castor oil during the reaction. Atmospheric, sub-atmospheric, or super-atmospheric pressures may be used. The proportions of the various ingredients and the preferred ratios one to another are fully given. The process results in a dehydrated castor oil having a pale initial colour, and which does not darken during the bodying process to a colour darker than 4 on the Hellige-Klett scale.

Classifications:
International (IPC 8-9): C09F5/06 (Advanced/Invention);
C09F5/00 (Core/Invention)
International (IPC 1-7): C09F5/00
CPC: C09F5/06
European: C09F5/06

Family:

Publication number	Publication date	Application number	Application date
GB646049 A	19501115	GB19480001137	19480114

Probable Assignee: LEWIS BERGER AND SONS LTD
Assignee(s): (std): LEWIS BERGER AND SONS LTD
Assignee(s): LEWIS BERGER AND SONS LIMITED

2) Family number: 19809117 (US2889287A)

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Title: CATALYST AND METHOD OF CATALYST PREPARATION

Abstract: Source: GB796175A Metal chelates in which the chelating agent is an amino **acid** are formed by reacting in an aqueous medium an amino **acid** and a compound of the metal, e.g. the hydroxide, carbonate metal-halogen **acid** or sulphate. The following amino **acids** are specified: ethylene diamine tetra-**acetic** **acid**, N-2-hydroxyethyl ethylene diamine triacetic **acid**, aspartic **acid**, **glutamic** **acid**, tryptophan, valine, phenylalamine, alpha-alamine, beta-alamine, and asparagine. When a polycarboxylic amino **acid** is used, the chelate may have hydrogen atoms which are replaceable by a metal different from that already present. Metals referred to are platinum, nickel, cobalt, iron, molybdenum, chromium, zinc, calcium, magnesium and barium. Ammonium hydroxide may be added to the aqueous medium in which the reaction takes place, the ammonium radical being present in the chelate compound formed. Preparations of various metal chelates are described in examples, including the preparation of a platinum chelate containing chlorine atoms, and a process for removing the chlorine atoms. The metal chelates are used as solutions or dispersions for impregnation of porous supports in the preparation of catalyst (see Group III).ALSO:A catalyst is prepared by wetting a porous support, having a surface area of at least 25 square metres per gram, with a solution or dispersion of a chelate formed from a metal and an amino **acid**, and drying and calcining the wetted support to decompose the amino **acid**. Metal chelates may be formed from the following amino **acids**: ethylenediamine tetra-**acetic** **acid** (EDTA), N-2-hydroxyethyl ethylenediamine triacetic **acid**, aspartic **acid**, **glutamic** **acid**, tryptophan, valine, phenylalanine, alphaalanine, beta-alanine, and asparagine. When a polycarboxylic amino **acid** is used, the chelate may have replaceable hydrogen atoms; these hydrogen atoms may be replaced by a metal which may be different from that in the cation, the resulting salts being used to impregnate the support with two metals simultaneously, e.g. molybdenum and cobalt, cobalt and chromium, zinc and chromium, nickel and chromium. The support may be dried before impregnation or may be in the form of a wet or freshly precipitated gel. After impregnation, drying removes the solvent and calcining decomposes the chelate to the metal or metal oxide which may be reduced or converted to a sulphide or halide. The support may have cracking activity, examples being silica-alumina, silica-magnesia, silica-alumina-zirconia, and clay products. In examples: (1) silica-alumina beads are impregnated with a solution of ammonium molybdate and a chelate compound formed from cobalt and EDTA; (2) alumina is impregnated with a solution of molybdenum trioxide in aqueous oxalic **acid**, dried, calcined and then impregnated with a solution of the cobalt-EDTA compound; (3) silica-alumina is impregnated twice with solutions containing cobalt and molybdenum as in (1); (4) silica-alumina is impregnated with a solution of the cobalt-EDTA compound and the resulting catalyst found to have a longer life in cracking gas oil than a catalyst prepared using an impregnating solution of cobalt nitrate; (5)-(7) silica-alumina is impregnated with a solution of a chelate compound of cobalt and aspartic **acid**, **glutamic** **acid**, or tryptophan; (8)-(10) silica-alumina is impregnated with a solution of a chelate compound of iron and EDTA, valine, or phenylalanine; (11)-(13) silica-alumina is impregnated with a solution of a chelate compound of nickel and EDTA, alphaalanine, or beta-alanine; (14) alumina is impregnated with an ammoniacal solution of a chelate compound of platinum and EDTA containing chlorine; (15) silica-alumina is impregnated with an ammoniacal solution of a chelate compound of platinum and EDTA free from chlorine; (16) silica-alumina containing cobalt and chromium is prepared by impregnating the support with a solution of cobalt-EDTA-chromate; (17) silica-alumina containing zinc and chromium is prepared by impregnating the support with a solution of zinc-EDTA-chromate; (18) silica-alumina is impregnated with a solution of a cobalt salt of an **acid** nickel chelate formed from nickel and EDTA; (19) silicon-alumina is impregnated with a solution of a nickel salt of an **acid** nickel chelate as in (18); (20) silica-alumina is impregnated with a solution of a chelate compound of nickel and asperagine; (21) silica-alumina is impregnated with a solution of a cobalt salt of an **acid** platinum chelate formed from platinum and EDTA; (22) silica-alumina is impregnated with a solution of a nickel salt of **acid** ferric chelate formed from iron and EDTA; (23) silica-alumina is impregnated with calcium, magnesium, or barium salts of **acid** chelates formed from EDTA and iron, platinum, cobalt, or chromium. The catalysts may be used in processes of hydrogenation, dehydrogenation, cracking and hydrocracking, isomerization, reforming, aromatization, cyclization, oxidation, desulphurization, denitrogenation, and disproportionation.

Classifications:

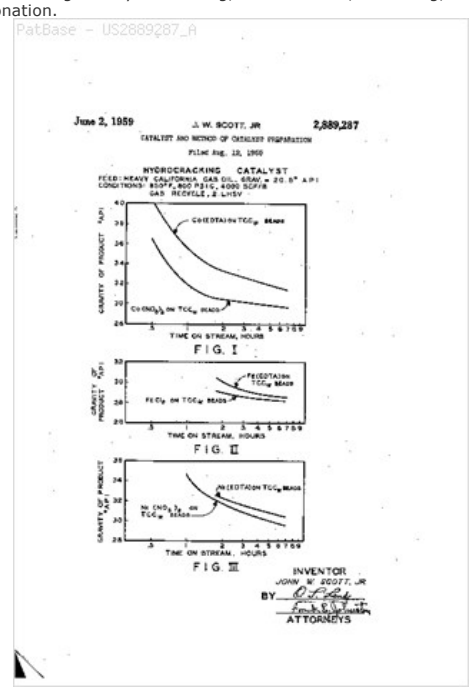
International (IPC 8-9): B01J23/40 B01J23/652 B01J23/74 B01J23/84 B01J23/85 B01J23/86 B01J23/88 B01J27/049 B01J27/051 B01J37/02 C10G45/08 (Advanced/Invention);
B01J21/12 B01J35/10 B01J37/03 B01J37/08 (Advanced/Non-invention);
B01J23/40 B01J23/54 B01J23/74 B01J23/76 B01J27/04 B01J37/00 C10G45/02 (Core/Invention);
B01J21/00 B01J35/00 (Core/Non-invention)

International (IPC 1-7): C07B1/00 C07B3/00 C10G13/04 C10G13/10 C10G23/02 C10G35/08

CPC: Y10S502/509 C10G11/02 B01J21/12 B01J23/40 B01J23/6525 B01J23/74 B01J23/84 B01J23/85 B01J23/86 B01J23/88 B01J27/049 B01J27/0515 B01J35/1014 B01J37/02 B01J37/0201 B01J37/0203 B01J37/03 B01J37/086 C10G27/00 C10G29/06 C10G45/08 C10G49/04 C10G49/06

European: 12G4A2C B01J23/40 B01J23/652D B01J23/74 B01J23/84 B01J23/85 B01J23/86 B01J23/88 B01J27/049 B01J27/051A B01J37/02B2 C10G11/02 C10G27/00 C10G29/06 C10G45/08 C10G49/04 C10G49/06 L01J21/12 L01J35/10A4 L01J37/02 L01J37/02B L01J37/03 L01J37/08B4

US: 208/216R 208/217 502/220 502/255 502/256 502/261 502/314 502/509



Family:

Publication number	Publication date	Application number	Application date
DE1072595 B	19600107	DE1955C011899	19551003
DE1121757 B	19620111	DE1957G022971	19570919
FR1209058 A	19600229		00000000
GB796175 A	19580604	GB19550026987	19550921
GB816307 A	19590708	GB19570001766	19570117
GB823119 A	19591104	GB19570027742	19570903
NL110425 C	19650115	NL19570221942	19571028
NL221942 A	00000000		00000000
US2880171 A	19590331	US19560619405	19561031
US2889287 A	19590602	US19550527903	19550812

Priority:

US19550527903 19550812 US19560619405 19561031

Probable Assignee: GULF RESEARCH DEVELOPMENT CO

Assignee(s): (std): CALIFORNIA RESEARCH CORP ; GULF RESEARCH DEVELOPMENT CO ; SINCLAIR REFINING CO

Assignee(s): GULF RESEARCH AND DEVELOPMENT CO

Inventor(s): (std): BURNS JOSEPH ; FLINN RICHARD A ; FLINN RICHARD ALFRED ; MCKINLEY JOSEPH B ; SCOTT JR JOHN W

Inventor(s): JR JOHN W SCOTT

3) Family number: 20370572 (GB811103A) © PatBase

Title: Amino **acid** compounds and methods for producing the same

Abstract: Source: GB811103A The invention comprises 6-diazo-5-oxonorleucine (DON) including its optical enantiomorphs, alkali and alkaline earth metal salts, the C1-4 alkyl and benzyl esters thereof and the N-trifluoroacetyl derivatives of all these compounds; and their preparation by the following methods: (1) hydrazine is reacted with an alkyl ester or an alkali or alkaline earth metal salt of 6-diazo-5-oxo-N-phthaloylnorleucine to give the corresponding ester or salt of DON, which may then be hydrolysed with aqueous alkali below room temperature and/or neutralized, preferably at pH 5.5 to 7. Two to three equivalents of hydrazine are preferably used at below about 50 DEG C. (2) 6-Amino-5-oxonorleucine, preferably used in **acid-**addition salt form, is diazotized, suitable diazotizing agents being nitrous **acid**, as a solution or generated in situ, alkyl nitrites and nitrosyl compounds. (3) **Glutamic** **acid** a -benzyl ester is reacted with at least one equivalent of a halogenating agent, preferably at below 50 DEG C., and the resulting 4-carbobenzoxy-4-aminobutyryl halide is reacted in the cold with at least three equivalents of diazomethane to give 6-diazo-5-oxonorleucine benzyl ester which may then be hydrolysed with aqueous alkali at below 30 DEG C. and neutralized at pH 5.5 to 7. The reaction with diazomethane is advantageously performed at from -5 DEG to 10 DEG C. in an inert anhydrous organic solvent. (4) Gamma-benzyl-N-carboxyglutamate anhydride is hydrogenolysed, preferably in presence of a noble metal at a hydrogen pressure of 10 to 60 p.s.i., the resulting N-carboxyglutamate anhydride is reacted with at least one equivalent of a halogenating agent to give a 4-halocarbonylethyloxazolidine-2:5-dione, this is reacted in the cold with at least two equivalents of diazomethane and the resulting 4-(4-diazo-3-oxobutyl)-oxazolidine-2:5-dione is hydrolysed in an aqueous medium below 30 DEG C. and neutralized at pH 5.5 to 7 to give DON. The reaction with diazomethane is advantageously performed at -5 to 10 DEG C. in an inert organic solvent and the hydrolysis is preferably carried out in an alkaline medium. (5) N-trifluoroacetylglutamic **acid** is reacted with at least one equivalent of **acetic** anhydride, preferably at below 100 DEG C., the resulting N-trifluoroacetylglutamic anhydride is reacted with an alcoholic agent R11OM (R11 being C1-4 alkyl or benzyl and M hydrogen or an alkali metal) to give a mixture of the a -R11-ester and gamma-R11-ester of N-trifluoroacetylglutamic **acid**, the a -ester, free from or admixed with the gamma-ester, is reacted with at least one equivalent of a halogenating agent to give 4-carbobenzoxy- or 4-carbalkoxy-4-trifluoroacetamido-butyryl halide and this is reacted in the cold, preferably at -5 DEG to 10 DEG C., with at least two equivalents of diazomethane to give 6-diazo-5-oxo-N-trifluoroacetylnorleucine which may then be hydrolysed with aqueous alkali at below 30 DEG C. and neutralized at pH 5.5 to 7 and preferably 6 to 6.5 below room temperature to DON. Advantageously the alcoholic agent is sodium methoxide and the reaction therewith is carried out at below room temperature; and a preferred halogenating agent is thionyl chloride used at 50 DEG to 80 DEG C. (6) A sterile aqueous nutrient medium of pH between 5.0 and 8.5 and containing sources of carbon and nitrogen and inorganic salts is inoculated with Streptomyces C-2943, the resulting mixture is incubated under sterile, preferably submerged, aerobic conditions at between about 20 DEG and 35 DEG C., and preferably between 23 DEG and 29 DEG C., for a sufficient length of time for the production of L-DON, the solid material is removed and this product is isolated from the aqueous culture liquid. Advantageously, the nutrient medium contains at least one of the following in total quantity between 1.5 and 2 per cent of the total weight of the medium: soybean oil meal, wheat gluten meal, brewers' yeast, saline extracted hog stomach, meat protein hydrolysate, distillers' solubles, corn steep solids, soybean peptone and **acid** hydrolysed casein. The medium also preferably contains up to 2 per cent glucose or galactose and 0.1 to 0.5 per cent of an inorganic ammonium salt. The L-DON may be isolated by concentrating the culture liquid, e.g. to one fifth to one twentieth of its original volume, adding 3 to 10 volumes of a water-miscible organic solvent, separating precipitated impurities, contacting the solution with an adsorbent such as alumina of pH 5 to 8, eluting the product from the adsorbent with an eluant such as water or an aqueous solution of an organic solvent, e.g. ethanol, and recovering the product from the eluant. For further purification the L-DON so obtained may be formed into a dilute aqueous solution containing a minor proportion of a water-miscible organic solvent, the pH adjusted to 6 to 7, the solution contacted with active carbon, the adsorbed L-DON eluted with water containing less than 25 per cent of a water-miscible organic solvent, preferably acetone, and the eluant removed. In examples: (1) L-6-diazo-5-oxo-N-phthaloylnorleucine methyl ester with hydrazine hydrate in methylene chloride gives L-6-diazo-5-oxonorleucine methyl ester which is hydrolysed with methanolic NaOH at 0 DEG C. to give, on acidification and evaporation of the solvent, a product which is freeze dried, dissolved in water containing acetone, adsorbed in a column of activated carbon and diatomaceous earth, eluted with aqueous acetone and freeze dried to give L-DON; it is stated that the D-isomer is prepared similarly; (2) DL-DON is prepared similarly; (3) L-DON is prepared from L - 6 - diazo - 5 - oxo - N - phthaloylnorleucine potassium salt (prepared by hydrolysis of the methyl ester with methanolic potassium carbonate) and hydrazine hydrate in methanol and purified by a similar method to (1); it is stated that the D-isomer is prepared similarly; (4) DL-6-amino-5-oxonorleucine dihydrochloride is diazotized with sodium nitrite to give DL-DON which is purified by a similar method to (1); it is stated that L-DON and D-DON can be prepared similarly; (5) L-**glutamic** **acid** a -benzyl ester with CbI5 in acetyl chloride gives L-4-carbobenzoxy-4-aminobutyryl chloride hydrochloride, this with diazomethane in ether gives L-6-diazo-5-oxonorleucine benzyl ester and this on hydrolysis and purification as in (1) gives L-DON; it is stated that DL- and D-DON are prepared similarly; (6) L-4-(4-diazo-3-oxobutyl) oxazolidine - 2:5 - dione is hydrolysed with aqueous NaOH, the solution acidified and the product isolated and purified as in (1) to give L-DON; it is stated that D- and DL-DON are prepared similarly; (7) N-trifluoroacetyl-L-**glutamic** **acid** and **acetic** anhydride give N-trifluoroacetyl - L - **glutamic** anhydride and this on treatment with sodium methoxide in methanol gives a mixture of the alpha- and gammamethyl esters of N-trifluoroacetyl-L-**glutamic** **acid**, the former predominating (and it is stated that the benzyl esters can be prepared similarly using sodium benzylate in benzyl alcohol); also the a -benzyl ester is prepared free of the gammaester by reacting L-**glutamic** **acid** a -benzyl ester and ethyl thioltrifluoroacetate in dilute alkali at 23-24 DEG C., and the a -methyl ester is prepared free of the gamma-ester by reacting L-**glutamic** **acid** gamma-benzyl ester and ethyl thioltrifluoroacetate in dilute alkali to give N-trifluoroacetyl-L-**glutamic** **acid** gamma benzyl ester, esterifying this with diazomethane to give N-trifluoroacetyl-L-**glutamic** **acid** alpha-methylgamma-benzyl ester and hydrogenolysing this over palladium-charcoal; the mixture of N-trifluoroacetyl-L-**glutamic** **acid** a - and g -methyl ester with thionyl chloride gives a mixture of L - 4 - carbomethoxy - 4 - trifluoroacetamidobutyryl chloride and L-2-trifluoroacetamido-4-carbomethoxybutyryl chloride, this mixture with diazomethane in ether in the cold gives a product containing methyl L-6-diazo-5-oxo-N-trifluoroacetylnorleucine ester and this product on treatment with methanol and sodium hydroxide in the cold with subsequent acidification gives a product containing L-DON, which is purified by a similar method to (1); (8) a nutrient medium containing maltose, butanol-acetone fermentation residue, **acid** hydrolysed casein, calcium carbonate, sodium chloride and water is adjustde to pH 7.5 with sodium hydroxide, sterilized and inoculated with a castile soap solution suspension of Streptomyces C-2943 to give on incubation and filtration a solution containing L-DON, isolated as described in (9); (9) a nutrient medium containing glucose monohydrate, soybean oil meal, hog stomach saline extracted, ammonium chloride, sodium chloride, calcium carbonate, water and sufficient sodium hydroxide to give a pH of 7.5 is sterilized and inoculated with a sodium heptadecyl sulphate solution suspension of Streptomyces C-2943, the incubated medium is filtered, the filtrate is concentrated, ethanol is added, the solution is filtered, the filtrate is adsorbed on a column o activated alumina, the column is eluted with aqueous ethanol and the eluate freeze dried, the dried material is dissolved in aqueous acetone and the solution adsorbed on a column of activated carbon and diatomaceous earth, and the column is eluted with aqueous acetone and chosen fractions are freeze dried to give pure L-DON; and (10) a procedure similar to (9) also gives pure L-DON. Specifications 811,104 and 811,105 are referred to.

Classifications:
International (IPC 8-9): C07C245/18 (Advanced/Invention);
C07C245/00 (Core/Invention)
International (IPC 1-7): C07C113/00
CPC: C07C245/18
European: 124BG12B2H2B6 124BG8B3B2D4 124BG8B3B2D6 6G2 C07C245/18

Family:

Publication number	Publication date	Application number	Application date
GB811103 A	19590402	GB19560012521	19560424

Priority:

19550825

Probable Assignee: PARKE DAVIS AND CO

Assignee(s): (std)**:** PARKE DAVIS AND CO

Assignee(s): PARKE DAVIS AND COMPANY

4) Family number: 40824 (US3389065A)

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Title: Method for electrolytically polishing stainless **steel**

Abstract: Source: US3389065A ABSTRACT OF THE DISCLOSURE
Method for electrolytically polishing stainless **steel** to effect a pear-like appearance thereon which comprises elec-trolyzing a solution consisting essentially of water, sulfuric **acid** and an effective amount of an additive which sticks 'unevenly on the surface of the stainless **steel** anode during electrolysis. Additives which may be employed include high molecular weight substances such as starch, glue, sawdust and paper, sugars such as dextrose and mannitol, organic **acids** or salts thereof such as malic **acid**, citric **acid**, succinic **acid**, tartaric **acid**, **acetic** **acid**, gluconic **acid**, sodium malate and sodium gluconate, poly-hydric alcohols such as glycerine, ethylene glycol and inositol, amines such as butylamine and 2-ethylhexylamine, picoline, nicotinic **acid** amide, synthetic high -molecular weight substances such as polyvinyl alcohol and polyethylene glycol and amino **acids** such as aspartic **acid**, **glutamic** **acid** and glycine. Electrolysis is carried out at a temperature of from 0 degrees to 100 degrees C. and at a current density of from 5 to 500 amperes per square decimeter.

Classifications:
International (IPC 8-9): C25F3/06 C25F3/24 (Advanced/Invention)
International (IPC 1-7): C25F3/06 C25F3/24
CPC: C25F3/06 C25F3/24
European: C25F3/06 C25F3/24
US: 204/140.5 205/675 205/676 205/677 205/682 205/684 252/79.4

Family:

Publication number	Publication date	Application number	Application date
BE674347 A	19660415		19651227
FR1527690 A	19680607		00000000
GB1124609 A	19680821	GB19650054941	19651228
US3389065 A	19680618	US19650515726	19651222

Priority:

JP19640073479 19641228 JP19640073480 19641228

Probable Assignee: KYOWA HAKKO KOGYO KK

Assignee(s): (std): KYOWA HAKKO KOGYO KK

Assignee(s): KYOWA HAKKO CO ; KYOWA HAKKO CO LTD ; KYOWA HAKKO KOGYO CO LTD

Inventor(s): (std): HIROSHI NAGAI ; KOICHI NAGAOKA ; NAGAI HIROSHI ; NAGAOKA KOICHI ; SHIBASAKI YASUICHI ; YASUICHI SHIBASAKI

5) Family number: 769638 (US3655874A)

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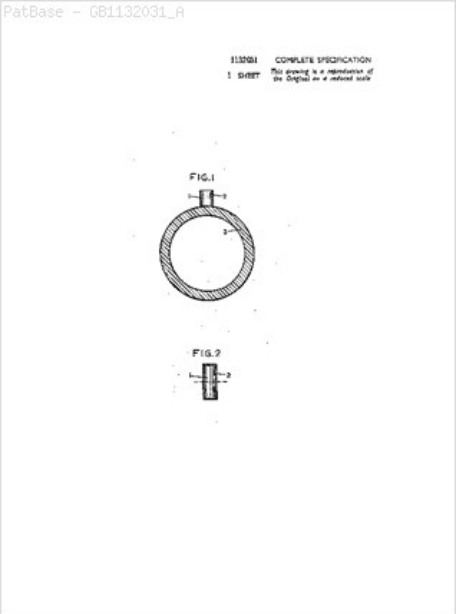
Title: PROCESS FOR THE PURIFICATION OF CRUDE GONADOTROPIN PREPARATIONS

Abstract: Source: US3655874A ABSTRACT OF THE DISCLOSURE A gonadotropic hormone is purified by preparing a clear aqueous solution of the hormone containing between about 0.33 and about 0.40 mole fraction of a lower aliphatic alcohol, and having a pH between about 6 and 9, and containing between about 0.013 and about 0.016 mole fraction of a salt soluble in the alcohol such as an ammonium or amine salt of a lower aliphatic carboxylic **acid**, or a salt of a quaternary ammonium base, and then adding either a lower aliphatic carboxylic **acid** or an inorganic **acid** until the pH is between 3 and 6, simultaneously raising the alcohol concentration to between about 0.40 and about 0.52 mole fraction to selectively precipitate the gonadotropic hormone. CROSS-REFERENCE TO RELATED APPLICATION This application is a continuation-in-part of copending application Ser. No. 513,588 filed Dec. 13, 1965, now abandoned. B

Classifications:
International (IPC 8-9): A61K38/24 F22B37/10 (Advanced/Invention); A61K38/24 (Core/Invention)
International (IPC 1-7): A61K17/00 A61K17/06 A61K37/38 C07G15/00 C22C39/14
CPC: F22B37/106 Y10S530/834 A61K38/24
European: 30H17C2B A61K38/24 F22B37/10G
US: 424/99 530/399 530/834



Family:

Publication number	Publication date	Application number	Application date
BE675068 A	19660713		19660113
CH504867 A	19710331	CH19660000430	19660113
DE1617660 A1	19720706	DE19661617660	19660112
DK115488 B	19691013	DK19660000115	19660110
FR1465013 A	19670322		00000000
FR1465013 A	19670106	FR19660045645	19660112
GB1132021 A	19681030	GB19660000081	19660103
GB1132031 A	19681030	GB19660006569	19660215
NL6500350 A	19660714	NL19650000350	19650113
NL6502092 A	19660822	NL19650002092	19650219
SE321308 B	19700302	SE19660000427	19660113
US3655874 A	19720411	US19690819971	19690428

Priority:
NL19650000350 19650113 NL19650002092 19650219

Probable Assignee: ORGANON LABOR LTD
Assignee(s): (std): HANS VAN HELL ; ORGANON LABOR LTD ; ORGANON NV ; PROVINCIAL EN GEMEENTELIJK UTR
Assignee(s): ORGANON LABORATORIES LIMITED ; ORGANON LABORATORIES LTD ; N V ORGANON ; N V PROVINCIAL EN GEMEENTELIJK UTRECHTS STROOMLEVERINGS BEDRIJF ; NVORGANON
Inventor(s): (std): HELL HANS VAN ; VAN HELL HANS ; VAN HELL H ; HANS HALL
Inventor(s): HALL HANS ; HANS VAN HELL

6) Family number: 643607 (GB1222969A) © PatBase

Title: PLATING PROCESS

Abstract: Source: GB1222969A 1,222,969. Successive electroless and electrolytic plating from the same bath. GEIGY (U.K) Ltd. May 31, 1968 [June 3, 1967], No. 25708/67. Headings C7B and C7F. Metal is deposited on to a substrate which is substantially free from grease and other contaminating material by immersing the substrate in an aqueous bath containing per litre 0.002 to 0.6 moles of a source of metal ions, 0.0015 to 6 moles of a complexing agent for said metal ions, and 0.002 to 2.5 moles of a reducing agent to effect electroless plating and thereafter while still immersed in the same bath effecting electroplating on to the substrate. Preferably the plating solution is agitated during the electroless plating stage which lasts for 10 to 40 minutes to produce a metal film of sufficient thickness to carry the electro-plating current without damage to the film and the specified range of proportions of the metal ions and of the reducing agent is maintained by periodic additions. The substrate may be a metal such as copper, nickel, **steel**, brass chromium, tin or silver or a non-metallic material such as glass, ceramic or a synthetic resin such as an epoxy, amide, vinyl, styrene, ethylene, propylene or acrylic polymer, which material is treated successively with **acid** solutions of stannous chloride and an **acid** noble metal salt e.g. palladium chloride before immersion in the plating bath. Preferably the metal complexing agent is in excess of that required to complex all the metal in the solution. Specified types of complexing agents are aminocarboxylic or polyaminopolycarboxylic **acid** or their alkali metal salts or alkylene or polyalkylene polyamines, while specified reducing agents are formaldehyde, alkali metal hypophosphites, alkali metal borohydrides or aminoboranes. In examples the substrate is stainless **steel** or sensitized activated ABS resin and the plating metal is copper or nickel. Reference is made to the subsequent electro-plating of copper with nickel or chromium. Preferred baths for copper contain copper sulphate, disodium EDTA, sodium hydroxide and formaldehyde together with either sodium cyanide and optionally thiourea, used at pH 12A1 to 12.7 and 23‹C., or with sodium cyanide or carbonate and mercaptobenzthiazole used at pH 11.8 to 12.4 at 50‹C., while for nickel the baths contain nickel chloride, disodium EDTA, sodium hypophosphite and lead chloride, used at pH 4.5 and 70 or 85‹ C. Reference is made to including arsenic in the nickel baths e.g. added as arsenate ions or arsenic pentoxide. To avoid electroless deposition on the anodes, which preferably are of the metal to be deposited, during the initial electroless step either the anodes are removed from the bath or they are made slightly anodic relative to inert cathodes. Reference is made to applying the invention to the deposition of silver, gold, cobalt, platinum or palladium.

Classifications:
International (IPC 8-9): C23C18/52 C25D3/02 C25D5/34 (Advanced/Invention); C23C18/16 C25D3/02 C25D5/34 (Core/Invention)
International (IPC 1-7): C23C3/02 C25D3/02 C25D5/34
CPC: C23C18/52 C25D3/02 C25D5/34
European: C23C18/52 C25D3/02 C25D5/34

Family:

Publication number	Publication date	Application number	Application date
FR1568642 A	19690523		19680613
GB1222969 A	19710217	GB19670025708	19670603

Priority:
GB19670025708 19670603

Probable Assignee: GEIGY UK LTD
Assignee(s): (std): GEIGY U K LTD ; GEIGY UK LTD
Assignee(s): GEIGY U K LIMITED
Inventor(s): (std): HOWARD DONALD KEAREY ; STRICKLAND GORDON ROBERT
Inventor(s): DONALD KEAREY HOWARD ; GORDON ROBERT STRICKLAND

7) Family number: 1139918 (US3776825A)

Title: ELECTROLYTIC TREATMENT

Abstract: Source: US3776825A ABSTRACT OF THE DISCLOSURE An aqueous solution is provided containing (1) an alkali metal or alkaline earth metal halide where the halogen has an atomic weight of 35 to 127 and (2) an amine containing a hydroxy group, a sulfonic **acid** group, an acetyl group or a carboxylic **acid** group and the solution is decomposed electrolytically to form the corresponding N-halo compound in situ. The present invention relates to the formation of Nmonohaloamines. N-monohaloamines also containing a hydroxy group, a sulfonic group, an N-acetyl group or a carboxylic **acid** group are useful for many purposes. Thus they are useful in treating teeth to remove caries and plaque, prevent the formation of calculus and to brighten teeth. Many of these N-monohaloamines which are most useful for such purposes are relatively unstable and must be prepared in situ. The normal way for preparing such compounds is to employ alkali metal or alkaline earth metal hypohalites. Such hypohalites also are unstable in aqueous solution. The unstability of the hypohalite and of the N-haloamino compound is an impediment to the free and full use of such solutions. The halogen atoms have an atomic weight of 35 to 127, i.e., they are chlorine, bromine or iodine. It is accordingly an object of the present invention to provide a method for the formation of the solutions immediately prior to use. Another object is to provide a method for the formation of the solutions, immediately prior to use, in an apparatus for their application to the teeth. An additional object is to provide an apparatus for the electrolytic formation of such solutions and their application to the teeth essentially immediately upon formation. According to the present invention, a solution of an alkali metal or an alkaline earth metal halide is decomposed electrolytically so as to provide free halogen which then reacts to form hypohalite in the presence of hydroxide ion. In order to form an N-halo derivative, the starting solution should also contain a suitable amino compound or compounds. The hypohalite reacts to form an N-halo derivative as soon as it is formed in the solution. The starting solution may contain one or more alkali metal or alkaline earth metal halide MX and/or M^2X_2, where M equals Li, Na, K, Rb, Cs and M^2equals Ca, Sr, Ba and X equals Cl, Br, I. These solutions are electrolyticaly decomposed according to the following equations: Anode M++e+$H_2$0-MOH+$^1/H_2$ Cathode X--ss $^1/X_2$ +e or Anode M+++2e+2H_2O-$M^2(OH)_2$ +H_2 Cathode 2X--- X_2 +2e The free halogen obtained immediately forms hypohalite: 2MOH+X_2 -- MOX plus or minus MX plus or minus H_2O $M^2(OH)_2$ plus or minus X_2 - $M^2X(OX)$ +$H_2$0 2$M^2(OH)_2$ +2X_2_y $M^2(OX)_2$ + M^2X_2 plus or minus 2$H_2$0 These hypohalites can then react with a suitable amino compound(s) to give the N-halo derivative(s). Examples of suitable starting halides are sodium chloride, sodium bromide, sodium iodide, lithium chloride, lithium bromide, lithium iodide, potassium chloride, potassium bromide, potassium iodide, rubidium or cesium chloride, calcium chloride, calcium bromide, calcium iodide, strontium chloride, strontium bromide, strontium iodide, barium chloride, barium bromide and barium iodide. The solution formed should have an alkaline pH usually 8 to 12 an preferably 10.5 to 11.5, most preferably 11 to 11.5. Desirably the electrolysis is carried out to form a solution 0.004 to 0.016 molar in N-haloamine while not essential it is preferable to have present excess unhalogenated amine, i.e., in an amount up to 15 times the halogenated amine and preferably 6 to 8 times the Nhalogenated amine on a molar basis. As the amino nitrogen compounds there can be used either inorganic compounds such as sulfamic **acid** or organic compounds containing 2 to 11 carbon atoms, e.g., glyciuc, sarcosine, aipha-aminoisobutyric **acid**, taurine, 2-aminoethanol, N-acetylglycine, alanine, beta-alanine, serine, phenyl alanine, norvaline, leucine, isoleucine proline, hydroxyproline, omega aminoundecanoic **acid**, as-par-tic **acid**, **glutamic** **acid**, glutamine, asparagine, valine, tyrosine, threonine, cysteine, cystine, methionine, glutamine, tryptophane, histidine, arginine, lysine, alpha-amino-butyric. **acid**, gamma-aminobutyric **acid**, alpha, epsilon diamino pimelic **acid**, ornithine, hydroxyl lysine, anthranilic **acid**, p-aminobenzoic **acid**, sulfanrilic **acid**, orthanilic **acid**, phenyl sulfamic **acid**, aminopropanesulfonic **acid**, 2-45aminoethanol, 2-aminopropanol, diethanolamine, ethylenediamine tetra **acetic** **acid** (EDTA), nitrilotriacetic **acid** and aminomethanesulfonic **acid**. Examples of N-halo compound include N-chlorogly-cine, N-bromoglycine, N-iodoglycine, N-chlorosarcosine, N - bromosarcosine, N - iodosarcosine, N - chloro alpha amino isobutyric **acid**, N - chlorotaurine, N - bromotaurine, N-iodo taurine, N-chloro ethanolamine, Nethanolamine, N-iodo - N-acetyl glycine, N-bromo, N-acet-yl glycine, N-chloroalanine, N-chloro beta alanine, Nbromo beta alanine, N-chloroserine, N-bromoserine, Niodoserine, N-chloro-N-phenylalanine, N-chloroisoleucine, N-chloronorvaline, N-chloroleucine, N-bromoleucine, Niodoleucine, N-chloroproline, N-bromoproline, N-iodopro-line, N-chloro hydroxyproline, N-chloro omega aminoundecanoic **acid**, N-chloroaspartic **acid**, N-bromoaspartic **acid**, N-chloroglutamic **acid**, N-iodoglutamic **acid**, Nchiorovaline, N-chlorotyrosine, N-bromotyrosine, N-iodo-tyrosine, N-chlorothreonine, N-chlorocysteine, N-chloro-cystine, N-chloromethionine, N-bromomethionine, N-6.5 chiorotryptophane, N-chlorohistidine, N-chloroargenine, N-chloroglutamine, N-bromoglutamine, N-chlorolysine, N-chloro gamma aminobutyric **acid**, N-chloro alpha, epsilon diaminopimelic **acid**, N-chloro ornithine, N-chloro hydroxylysine, N-chloroanthranilic **acid**, N-chloro p-ami-nobenzoic **acid**, N-chlorosulfanic **acid**, N-chloro phenylsulfamic **acid**, N-chloro aminopropanesulfonic **acid**, Naminomethanesulfonic **acid**, N-chloropropanolamine, Nchiorodiethanolamine, N-chloro ethylene diamine tetraacetic **acid** (in this compound the nitrogen atom apparently functions as a quaternary nitrogen). Ilypohalides MOX and/or $M^2X(OX)$ and/or M^2 $(OX)_2$ and/or N-halo derivatives specified above, can be generated in the stream of a water solution, e.g. to be delivered as a liquid jet stream. In a preferred method, the electrolysis step is carried out in a flow system upstream of a reservoir to receive the activated solution, or upstream of a means adapted to direct the stream of activated solution onto an affected area such as the teeth. By way of example, the electrolysis may take place in a cell coupled to a dispenser nozzle, either at the nozzle itself or in a separate location and coupled to the nozzle through piping such as flexible hose. The stream of liquid may be at constant pressure, but in a preferred method it is used as a pulsating stream so as to act on the affected tooth material not only by abrasion caused by the stream flow, but also by erosion caused by mechanical fatiguing of the affected material by the pulsating jet. The invention will be understood best in connection with the drawing wherein the single figure is a diagrammolic illustration of one apparatus for carrying out the invention. Referring more specifically to the drawing there is provided a reservoir 2 containing starting aqueous solution containing, for example, sodium chlorine and glycine (as well as hydroxide, e.g., NaOH to control the p11). The solution then goes via suction check valve 4 to a pump 6, e.g., a pulse generator with drive. The solution then goes to electrolytic cell 8 whenever needed. Flow of the solution is controlled by foot switch 16. The hypohalite, e.g., sodium hypochlorite is formed in situ in the cell 8 and immediately forms the N-halo compound, e.g., N-chloro-glycine. The cell has an inlet 20 and an outlet 22. After leaving the outlet 22 the N-haloamine formed goes via flexible hose or-tubing 10 to the hypodermic needle (or the nozzle) 14 which can be held by handle 12 and the flow of solution directed to a patient's mouth. The starting solution advantageously contains (i) MX and MOH or $M^2(OH)_2$ and/or M^2X_2 and $M^2(OH)_2$or MOH and (ii) a suitable water soluble amino compound, capable of forming an N-halo derivative by reacting with the hypohalide. Illustrative hydroxides are sodium hydroxide, potassium hydroxide, calcium hydroxide, barium hydroxide. The pump may generate, for example, a steady pressure of 10 to 200 p.s.i., preferably 20-40 p.s.i., or a pulsating pressure of from 0 to 10 p.s.i., up to 0 to 200 p.s.i. during each pulse Pulse frequency may conveniently be from 100 to 1500 pulses per minute, and preferably 400-750 pulses a minute. The electrolytic cell must contain an anode, preferably a graphite anode, and cathode, preferably a stainless **steel** cathode. The anode is connected to the plus pole and the cathode to the minus pole of an electric current source, for instance, a battery. Potential between the anode and cathode must be above 1.5 volt, and preferably between 2.0 and 5.0 volts. A thermostat is preferably employed, e.g., a low volume/high surface type, or a direct electric current heater, to allow maintainance of temperature preferably between and 450 C., and especially body temperature 370 C., in the solution beyond the nozzle. The handle may be connected with the apparatus via a flexible hose or pipe capable of free bending and preferably able to withstand pressures up to 200 p.s.i. at a maximum temperature of,e.g., 450 C. It could carry a nozzle of a gauge of, say, 19 to 30, and preferably 20 to 23. It is useful to have an exchangeable nozzle, such as a hypodermic needle. EXAMPLE Preparation of a decayed tooth for filling Any of the solutions below may be delivered through the above-described apparatus, either as a steady jet or as a pulsating jet stream to remove caries from teeth or to remove plaque from teeth. Steady stream conditions are less efficient than pulsating conditions.

Classifications:

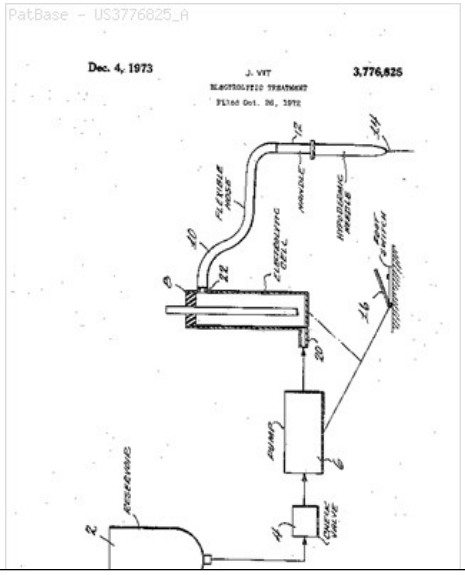
International (IPC 8-9): A61C17/00 A61C17/02 A61C17/024 A61C17/028 A61K33/20 A61K6/00 A61K8/20 A61K8/40 A61K8/41 A61K8/44 A61K8/46 A61Q11/00 B01J19/00 B01J19/08 C01B21/09 C07C301/00 C07C303/22 C07C303/34 C07C309/13 C07C309/14 C07C67/00 C07D209/20 C25B3/06 (Advanced/Invention);
A61C17/00 A61K33/20 A61K6/00 B01J19/00 B01J19/08 C07C301/00 C07C67/00 (Advanced/Non-invention);
A61C17/00 A61K33/20 A61K6/00 A61K8/19 A61K8/30 A61Q11/00 B01J19/00 B01J19/08 C01B21/00 C07C301/00 C07C303/00 C07C309/00 C07C67/00 C07D209/00 C25B3/00 (Core/Invention)

International (IPC 1-7): A61C17/00 A61C19/00 A61K27/00 A61K33/20 A61K5/00 A61K5/02 A61K6/00 A61K7/22 B01J1/00 B01J19/00 B01K1/00 C01B21/09 C07C101/10 C07C143/14 C07C85/00 C07C87/22 C25B3/06

CPC: A61K8/44 A61Q11/00 C25B3/06

European: A61K7/20 A61K7/22 A61K8/44 A61Q11/00 C25B3/06

US: 204/81 205/434 205/435 205/436 205/546 205/551 433/217.1



Family:

Publication number	Publication date	Application number	Application date
AU197357407 A1	19750109	AU19730057407	19730627
AU207357407 A1	19750109	AU19730057407	19730627
CA1007193 A1	19770322	CA19730173864	19730612
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FR2196800 B1	19770128	FR19730026440	19730717
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JP1091497 C3	19820331	JP19730071598	19730625
JP50105601 A2	19750820	JP19730071598	19730625
JP56035752 B4	19810819	JP19730071598	19730625
US3776825 A	19731204	US19720301142	19721026

Priority:

GB19720039591 19720824 US19720300887 19721026 US19720301142 19721026
AU19730057407 19730627

Probable Assignee: NAT PATENT DEV CORP

Assignee(s): (std)**:** HALSTEAD J M ; JAROSLAV VIT ; NAT PATENT DEV CORP ; NAT PATENT DEVELOP CORP

Assignee(s): NATIONAL PATENT DEVELOP CORP ; NATIONAL PATENT DEVELOP CORP US ; NATIONAL PATENT DEVELOPMENT CORP ; NATIONAL PATENT DEVELOPMENT CORP NEW YORK N Y V S ; NATIONAL PATENT DEVELOPMENT CORP NEW YORK N Y V ST A ; VIT JAROSLAV ; NAT PATENT DEV CORP US

Inventor(s): (std)**:** VIT JAROSLAV ; VIT J

Inventor(s): VIT JAROSLAV BELLE MEAD N J V ST A ; JAROSLAV VII ; JAROSLAV VIT ; VIT J US

8) Family number: 1511664 (US3795591A)

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Title: ELECTRODEPOSITION OF BRIGHT NICKEL IRON DEPOSITS EMPLOYING A COMPOUND CONTAINING A SULFIDE AND A SULFONATE

Abstract: Source: US3795591A ABSTRACT OF THE DISCLOSURE An aqueous bath suitable for the electrodeposition of a bright iron nickel electrodeposit onto a substrate susceptible to corrosion comprising iron ions, nickel ions, a bath soluble primary nickel brightener, an effective amount of a bath soluble complexing agent containing at least two complexing groups, said groups being independently selected from the group consisting of carboxy and hydroxy, provided at least one group is a carboxy group; the bath having a pH from 2.5 to about 5.5 and an ion of the formula: $-0_3S-R-S--A$ wherein A may be hydrogen, $-R_1$ $---SO_3$ -, -S---R_2 $-SO_3$ - or R_3; R, R, or R_2 may be a saturated alkylene, arylene, or aralkylene; and R_3 may be alkyl, aryl or aralkyl.

Classifications:
International (IPC 8-9): C25D3/14 C25D3/18 C25D3/56 (Advanced/Invention); C25D3/12 C25D3/56 (Core/Invention)
International (IPC 1-7): C23B5/04 C23B5/06 C23B5/08 C23B5/32 C23B5/46 C23B5/50 C25D3/12 C25D3/14 C25D3/16 C25D3/18 C25D3/20 C25D3/56
CPC: C25D3/14 C25D3/562
European: C25D3/14 C25D3/56B
US: 204/41 204/43T 205/112 205/113 205/180 205/260

Family:

Publication number	Publication date	Application number	Application date
AR224853 A1	19820129	AR19740256467	19741008
AU197356018 A1	19741128	AU19730056018	19730523
BR7304785 A0	19740815	BR19730004785	19730628
BR7409375 A	19760518	BR19740009375	19741107
CA1006842 A1	19770315	CA19730171760	19730518
CA1024930 A1	19780124	CA19730171799	19730518
CA1028649 A1	19780328	CA19740213100	19741104
DE2333069 A1	19740124	DE19732333069	19730629
DE2333069 C2	19830113	DE19732333069	19730629
DE2366419 C2	19871001	DE19732366419	19730629
DE2452831 A1	19750515	DE19742452831	19741107
FR2236959 A1	19750207	FR19730024399	19730703
FR2236959 B1	19770909	FR19730024399	19730703
FR2250834 A1	19750606	FR19740037049	19741108
FR2250834 B1	19790622	FR19740037049	19741108
GB1438552 A	19760609	GB19730025950	19730531
GB1438553 A	19760609	GB19760003316	19730531
GB1438554 A	19760609	GB19760003317	19730531
IT1023186 A	19780510	IT19740053937	19741108
IT989714 A	19750610	IT19730051194	19730703
JP1091574 C3	19820331	JP19740128834	19741108
JP50089225 A2	19750717	JP19740128834	19741108
JP56035753 B4	19810819	JP19740128834	19741108
JP56156789 A2	19811203	JP19810014900	19810203
NL7414615 A	19750512	NL19740014615	19741108
US3795591 A	19740305	US19720268349	19720703
US3806429 A	19740423	US19730380631	19730719
US3878067 A	19750415	US19730414003	19731108

Priority:

US19720268349 19720703 US19720268352 19720703 US19720268348 19720703
US19730414003 19731108 DE19732333069 19730629 US19730380631 19730719

Probable Assignee: OCCIDENTAL CHEMICAL CORP

Assignee(s): (std): HOOKER CHEMICALS PLASTICS CORP ; OXY METAL FINISHING CORP ; OXY METAL IND CORP ; OMI INT CORP

Assignee(s): OXY METAL IND ; OMI INT ; OXY METAL IND CORP US ; OXY METAL FINISHING CORP US ; OMI INT CORP EINE GES N D GES ; OMI INT CORP EINE GES N D GES D STAATES DELAWARE WARREN MICH US ; OXY METAL IND TE WARREN MICHIGAN VER ST V AM CORP ; TREMMEL ROBERT A ; MANUFACTURERS HANOVER TRUST CO ; MANUFACTURERS HANOVER TRUST CO A CORP OF ; OCCIDENTAL CHEMICAL CORP ; ADAMOWICZ NORMAN C ; CLAUSS RICHARD J ; HOOKER CHEMICALS AND PLASTICS CORP ; HOOKER CHEMICALS AND PLASTICS CORP 48089 WARREN MICH US ; HOOKER CHEMICALS AND PLASTICS CORP A CORP OF NY

Inventor(s): (std): ADAMOWICZ NORMAN C ; ADAMOWICZ NORMAN CHARLES ; CLAUSS RICHARD J ; CLAUSS RICHARD JOHN ; NOOMAN CHAARUZU ADAMOIKU ; RICHAADO JON KURAUSU ; RICHIYAADO JIYON KURAUSU ; TREMMEL R A ; TREMMEL ROBERT A ; TREMMEL ROBERT ARNOLD ; TREMMEL R ; ROBAATO AANORUDO TOREMERU ; NOOMAN CHIYAARUZU ADAMOBUIKU ; CLAUSS R ; ADAMOWICZ N

Inventor(s): TREMMEL ROBERT ARNOLD WOODHAVEN MICH ; TREMMEL ROBERT ARNOLD WOODHAVEN MICH US ; ADAMOWICZ N US ; TREMMEL R US ; ROBERT ARNOLD TREMMEL ; RICHARD JOHN CLAUSS ; NORMAN CHARLES ADAMOWICZ ; CLAUSS RICHARD JOHN ALLEN PARK MICH ; CLAUSS RICHARD JOHN ALLEN PARK MICH US ; JOHN CLAUSS RICHARD ; ADAMOWICZ NORMAN CHARLES INKSTER MICH ; ADAMOWICZ NORMAN CHARLES INKSTER MICH US ; ARNOLD TREMMEL ROBERT ; CHARLES ADAMOWICZ NORMAN ; CLAUSS R US

9) Family number: 6713367 (US4028055A)

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Title: Anti-corrosive agent for metals

Abstract: Source: US4028055A A method of inhibiting corrosion of metals comprising applying to a metal surface in an effective concentration a saturated aliphatic triamine of 9 carbon atoms having at each terminal position a primary amino group and being branched in the 4-position of the main chain. Such specific triamines include 1,3,6-triaminomethylhexane and 1,2,3-triaminoethylpropane. Addition products and condensation products derived from these organic triamines are also effective. The present anti-corrosive agents show a remarkable rust preventive effect to metals even when used in a small amount and are non toxic.

Classifications:
International (IPC 8-9): C23F11/14 C23G1/06 C23G3/00 (Advanced/Invention);
C23F11/10 C23G1/02 C23G3/00 (Core/Invention)
International (IPC 1-7): C07C103/00 C07C87/00 C09K3/00 C23F11/00 C23F11/04 C23F11/06 C23F11/10 C23F11/14 C23G1/00 C23G1/06 C23G1/18 C23G1/26
CPC: C23F11/141 C23F11/145
European: 124BG12B2D 124BG12B2D2 124BG2B3F C23F11/14A C23F11/14C
US: 106/14.14 106/14.15 106/14.18 106/14.31 21/2.7R 252/390 252/392 422/12 422/13 422/16 422/17 510/264 510/269 510/363 564/512

Family:

Publication number	Publication date	Application number	Application date
DE2611187 A1	19760930	DE19762611187	19760317
DE2611187 B2	19780511	DE19762611187	19760317
DE2611187 C3	19790125	DE19762611187	19760317
FR2304688 A1	19761015	FR19760007897	19760318
FR2304688 B1	19790420	FR19760007897	19760318
GB1499275 A	19780125	GB19760010952	19760318
JP51108644 A2	19760927	JP19750033392	19750319
JP53043377 B4	19781118	JP19750033392	19750319
JP958836 C3	19790614	JP19750033392	19750319
US4028055 A	19770607	US19760667622	19760317
US4073618 A	19780214	US19770774631	19770304

Priority:

JP19750033392 19750319 US19760667622 19760317

Probable Assignee: ASAHI CHEMICAL IND

Assignee(s): (std): ASAHI CHEMICAL IND

Assignee(s): ASAHI CHEMICAL IND CO LTD ; ASAHI KASEI KOGYO K K ; ASAHI KASEI KOGYO K K OSAKA JAPAN ; ASAHI KASEI KOGYO KK ; ASAHI KASEI KOGYO KABUSHIKI KAISHA

Inventor(s): (std): INOE SATORU ; INOUE AKIRA ; KAWAMOTO HIROSHI ; KOMOTO HIROSHI ; SAITO KAZUAKI ; CHONO MASAZUMI ; DOI TSUNESUKE ; SHINOZUKA ISAO ; TEINO MASAZUMI

Inventor(s): SHINOZUKA ISAO KAWASAKI ; DOI TSUNESUKE TAMA TOKIO ; SAITO KAZUAKI CHIGASAKI

10) Family number: 4931653 (US4296040A)

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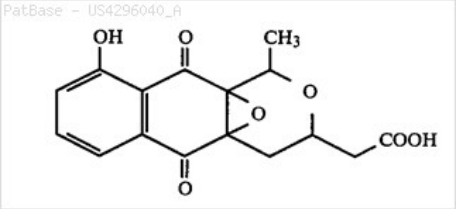
Title: ANTIBIOTIC NANAOMYCIN E AND A PROCESS FOR PRODUCING THE SAME

Abstract: Source: US4296040A The present invention teaches a new antibiotic nanaomycin E represented by the formula: Nanaomycin E is active against Gram-positive bacteria, Trichophyton and Mycoplasma and may be used as antibacterial and therapeutic agents for humans and animals. Nanaomycin E is also a useful starting maerial for the preparation of nanaomycin A which latter nanaomycin has the highest activity among the various nanaomycin-type compounds. Nanaomycin E is produced by fermentation of a microorganism belonging to the genus Streptomyces and capable of producing nanaomycin E, especially Streptomyces rosa variant notoensis (FERM-P 2209; ATCC 31135) and recovering the same from the fermented liquor.

Classifications:
International (IPC 8-9): A61K31/35 A61P31/04 C07D493/08 C12P17/18 (Advanced/Invention); C12R1/465 (Advanced/Non-invention); A61K31/35 A61P31/00 C07D493/00 C12P17/18 (Core/Invention)
International (IPC 1-7): A61K31/35 C07D303/00 C07D311/00 C07D311/78 C07D311/92 C07D493/02 C07D493/04 C07D493/08 C12D9/14 C12P17/06 C12P17/18 C12R1/465
CPC: Y10S435/886 C07D493/08 C12P17/181
European: C07D493/08 C12P17/18B
US: 260/345.2 435/119 435/125 435/886 549/383



Family:

Publication number	Publication date	Application number	Application date
GB2015525 A1	19790912	GB19790007886	19790306
GB2015525 B2	19820519	GB19790007886	19790306
JP1249186 C3	19850125	JP19780025041	19780307
JP54119468 A2	19790917	JP19780025041	19780307
JP59024995 B4	19840613	JP19780025041	19780307
US4296040 A	19811020	US19790097001	19791123
US4353986 A	19821012	US19810276432	19810622

Priority:
JP19780025041 19780307 US19790017314 19790305 US19790097001 19791123

Probable Assignee: KYOWA HAKKO KOGYO KK
Assignee(s): (std): KITASATO INST ; KYOWA HAKKO KOGYO KK
Assignee(s): KYOWA HATSUKO KOGYO KK ; KITAZATO KENKYUSHO ; KYOWA HAKKO KOGYO KABUSHIKI KAISHA
Inventor(s): (std): ISHII SHINZO ; ISHII SHINZOU ; KASAI MASAJI ; MINEURA KAZUYUKI ; OMURA SATOSHI ; OOMURA SATOSHI ; SHIRAHATA KIMIKATSU ; SHIRAHATA KUNIKATSU ; TAKAHASHI ITARU ; TAKAHASHI SHIYUU ; TANAKA HARUO
Inventor(s): TAKAHASHI SHU

11) Family number: 2121075 (US4868171A)

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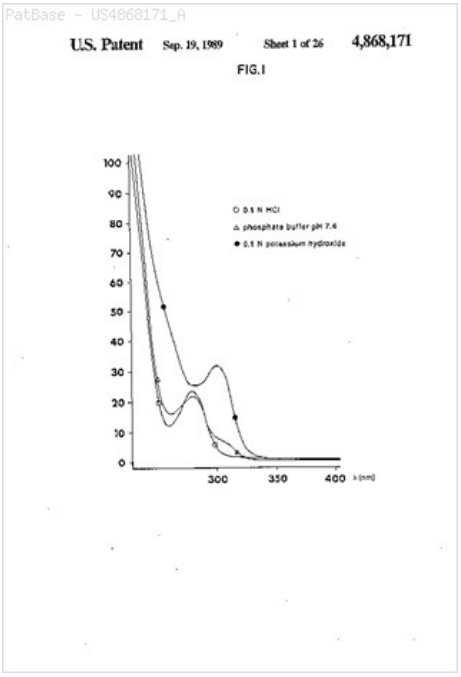
Title: ANTIBIOTIC A 40926 N-ACYLAMINOGLUCURONYL AGLYCONS AND ANTIOBIOTIC A 40926 AGLYCON

Abstract: Source: US4868171A The present invention concerns new antibiotic substances denominated antibiotic A 40926 N-acylaminoglucuronyl aglycon complex AB, antibiotic A 40926 N-acylaminoglucuronyl aglycon factor A, antibiotic A 40926 N-acylaminoglucuronyl aglycon factor B, antibiotic A 40926 N-acylaminoglucuronyl aglycon factor B0, antibiotic A 40926 N-acylaminoglucuronyl aglycon factor B1, antibiotic A 40926 aglycon and the addition salts thereof, a process for their preparation starting from antibiotic A 40926 complex or a factor thereof, and their use in the treatment of infectious diseases involving microorganisms susceptible to them.

Classifications:
International (IPC 8-9): A61K35/74 A61K38/00 A61P31/04 C07K1/113 C07K1/20 C07K1/22 C07K14/195 C07K14/41 C07K7/06 C07K7/64 C07K9/00 C12P21/02 (Advanced/Invention);
A61K38/00 C07K14/195 C07K14/41 C12P21/02 C12R1/03 (Advanced/Non-invention);
A61K35/66 A61K38/00 A61P31/00 C07K1/00 C07K14/195 C07K14/41 C07K7/00 C07K9/00 C12P21/02 (Core/Invention)
International (IPC 1-7): A23K1/17 A61K31/395 A61K31/70 A61K31/71 A61K35/70 A61K35/74 A61K37/02 A61K38/08 C07D498/00 C07D498/18 C07D498/22 C07G11/00 C07H17/00 C07H17/08 C07K1/00 C07K14/36 C07K15/04 C07K7/00 C07K7/06 C07K7/64 C07K9/00 C07K99/00 C12P1/06 C12P17/14 C12P17/16 C12P17/18 C12P21/02 C12R1/03
CPC: Y10S930/19 Y10S930/27 C07K9/008
European: C07K9/00F2
US: 424/118 424/119 514/183 540/456 930/190 930/200 930/270 930/DIG.510 930/DIG.801



Family:

Publication number	Publication date	Application number	Application date
AT70069 E	19911215	AT19860117452T	19861215
AU198666883 A1	19871015	AU19860066883	19861223
AU601706 B2	19900920	AU19860066883	19861223
CN1033043 C	19961016	CN19861008977	19861230
CN86108977 A	19880427	CN19861008977	19861230
DE3682767 D1	19920116	DE19863682767	19861215
DK167770 B1	19931213	DK19860006172	19861219
DK617286 A	19871012	DK19860006172	19861219
DK617286 A0	19861219	DK19860006172	19861219
EP0240609 A2	19871014	EP19860117452	19861215
EP0240609 A3	19880727	EP19860117452	19861215
EP0240609 B1	19911204	EP19860117452	19861215
ES2040207 T3	19931016	ES19860117452T	19861215
FI86307 B	19920430	FI19860005320	19861229
FI86307 C	19920810	FI19860005320	19861229
FI865320 A	19871012	FI19860005320	19861229
FI865320 A0	19861229	FI19860005320	19861229
GB8608809 A0	19860514	GB19860008809	19860411
GR3003443 T3	19930217	GR19910402185T	19911227
HU196229 B	19881028	HU19860005504	19861229
HU43869 A2	19871228	HU19860005504	19861229
IE59523 B	19940309	IE19860003382	19861223
IE863382 L	19871011	IE19860003382	19861223
IL81106 A0	19870331	IL19860081106	19861226
IL81106 A1	19920715	IL19860081106	19861226
JP2023237 C3	19960226	JP19860315965	19861229
JP62242699 A2	19871023	JP19860315965	19861229
JP7059593 B4	19950628	JP19860315965	19861229
KR950010461 B1	19950918	KR19860011488	19861229
KR960010557 B1	19960802	KR19870006804	19870701
NO172121 B	19930301	NO19860005323	19861229
NO172121 C	19930609	NO19860005323	19861229
NO865323 A	19871012	NO19860005323	19861229
NZ218789 A	19900926	NZ19860218789	19861223
PH23620 A	19890911	PH19870034710	19870112
PH23620 A	19890911	PH19870000347	19870112
PT84029 A	19870101	PT19860084029	19861229
PT84029 B	19890117	PT19860084029	19861229
US4868171 A	19890919	US19860945639	19861223
ZA8609713 A	19871230	ZA19860009713	19861229

Priority:
GB19860008809 19860411 EP19860117452 19861215

Probable Assignee: GRUPPO LEPETIT SPA

Assignee(s): (std): LEPETIT SPA

Assignee(s): GRUPPO LEPETIT SPA ; GRUPPO LEPETIT S P A ; GRUPPO LEPETIT S P A MAILAND MILANO IT ; GRUPPO LEPETIT SPA IT ; ENRICO SELVA ; ERNEST RIVA ; FRANCESCO PARENTI ; GIOVANNI CAMAGGI ; GRUPPO LEPETIT IT SPA

Inventor(s): (std): AL FRANCISCO PARENTI ET ; CASSANI GIOVANNI ; CASSANI GOIVANNI ; ENRICO SELVA ; ENRIKO SERUBA ; ERNEST RIVA ; ERUNESUTO RIBA ; FRANCESCO PARENTI ; JIOWANI KASANI ; JIYOBANNI KATSUSAANI ; LIWA ERNISTO ;

PARENTE FRANCESCO ; PARENTI FRANCESCO ; FURANCHIESUKO PARENTEI ; GIOVANNI CASSANI ; RIVA ERNEST ; RIVA ERNESTO ; SERWA ENLICO ; SELVA ENRICO

Inventor(s): SELVA ENRICO I 27027 GROPELLO CAIROLI ; SELVA ENRICO IT ; SELVA ENRICO I 27027 GROPELLO CAIROLI PV IT ; RIVA ERNESTO I 20122 MILANO IT ; PARENTI FRANCESCO I 20020 LAINATE MI IT ; GIOVANNI CAMAGGI ; CASSANI GIOVANNI I 27100 PAVIA IT ; RIVA ERNESTO IT ; GOIVANNI CASSANI ; PARENTI FRANCESCO I 20020 LAINATE ; PARENTI FRANCESCO IT ; FRANCISCO PARENTI ET AL ; FRANCESCO PARENTE ; ERNESTO RIVA ; ERNISTO LIWA ; ENLICO SERWA ; CASSANI GIOVANNI IT

Agent(s): PHILLIPS ORMONDE FITZPATRICK; LUZZATTO AND LUZZATTO

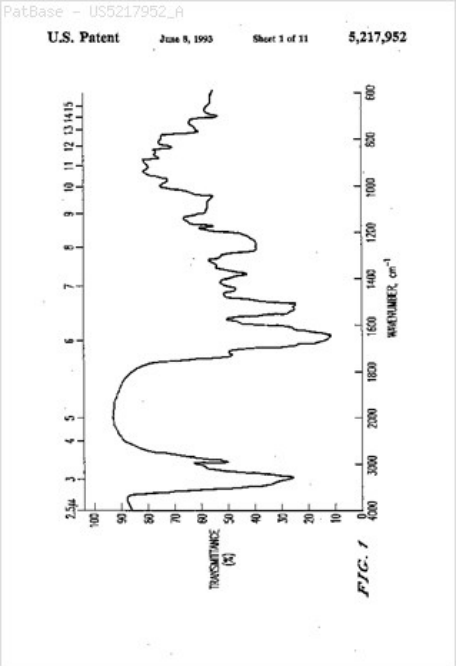
Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

12) Family number: 7233299 (US5217952A)

Title: PEPTIDES WS-9326A AND WS-9326B, DERIVATIVES THEREOF AND USES THEREOF

Abstract: Source: US5217952A This invention relates to the novel peptides WS-9326A, WS-9326B, their derivatives and pharmaceutically acceptable salts thereof which have pharmacological activities, particularly in the treatment and/or prevention of asthma and/or pain.

Classifications:
International (IPC 8-9): A61K35/74 A61K38/00 A61K38/08 A61K38/12 A61P11/08 A61P25/04 C07G11/00 C07G99/00 C07K1/02 C07K1/06 C07K1/113 C07K1/20 C07K14/195 C07K14/41 C07K5/12 C07K7/06 C07K7/52 C12N1/20 C12P1/06 C12P21/02 C12P21/04 (Advanced/Invention);
A61K38/00 A61K38/08 A61K38/12 C07K14/195 C07K14/41 C12N1/20 C12P21/02 C12R1/465 (Advanced/Non-invention);
A61K35/66 A61K38/00 A61K38/08 A61K38/12 A61P11/00 A61P25/00 C07G99/00 C07K1/00 C07K14/195 C07K14/41 C07K5/00 C07K7/00 C12N1/20 C12P1/06 C12P21/02 (Core/Invention);
A61K38/00 (Core/Non-invention)
International (IPC 1-7): A61K35/66 A61K35/74 A61K37/00 A61K37/02 A61K37/43 A61K38/00 A61K38/08 A61K38/12 C07G11/00 C07G17/00 C07K1/02 C07K1/06 C07K15/04 C07K5/10 C07K5/12 C07K7/04 C07K7/06 C07K7/50 C07K7/52 C07K7/54 C07K7/64 C07K99/00 C12N1/20 C12P1/04 C12P1/06 C12P1/06 C12P21/02 C12P21/04 C12P7/54 C12R1/465
CPC: Y10S514/826 C07K7/06 A61K38/00 C12P1/06 C12R1/465
European: C07K7/06 C12P1/06 C12R1/465 K61K38/00 M07K209/00
US: 435/253.5 435/71.2 435/71.3 514/11 514/16 514/18.3 514/21.1 514/826 514/9 530/317 530/323 530/329



Family:

Publication number	Publication date	Application number	Application date
AT108480 E	19940715	AT19890101607T	19890131
AT148890 E	19970215	AT19890105225T	19890323
AU198932397 A1	19891012	AU19890032397	19890403
AU627453 B2	19920827	AU19890032397	19890403
CA1335662 A1	19950523	CA19890595640	19890404
CA1338261 A1	19960423	CA19890589804	19890201
CN1036795 A	19891101	CN19891002100	19890404
CN1037857 C	19980325	CN19891002100	19890404
CN1163271 A	19971029	CN19961021791	19961130
DE68916659 D1	19940818	DE19896016659	19890131
DE68916659 T2	19941117	DE19896016659T	19890131
DE68927759 D1	19970327	DE19896027759	19890323
DE68927759 T2	19970619	DE19896027759T	19890323
DK161789 A	19891006	DK19890001617	19890404
DK161789 A0	19890404	DK19890001617	19890404
EP0327009 A1	19890809	EP19890101607	19890131
EP0327009 B1	19940713	EP19890101607	19890131
EP0336230 A2	19891011	EP19890105225	19890323
EP0336230 A3	19910717	EP19890105225	19890323
EP0336230 B1	19970212	EP19890105225	19890323
ES2056967 T3	19941016	ES19890101607T	19890131
ES2097736 T3	19970416	ES19890105225T	19890323
FI102547 B	19981231	FI19890001581	19890403
FI891581 A	19891006	FI19890001581	19890403
FI891581 A0	19890403	FI19890001581	19890403
GB8802229 A0	19880302	GB19880002229	19880202
GB8807921 A0	19880505	GB19880007921	19880405
GR3023353 T3	19970829	GR19970401005T	19970509
HU204853 B	19920228	HU19890001645	19890405
HU49631 A2	19891030	HU19890001645	19890405
IE64227 B	19950726	IE19890000208	19890124
IE890208 L	19890802	IE19890000208	19890124
IL89734 A0	19890928	IL19890089734	19890324
IL89734 A1	19940530	IL19890089734	19890324
JP1304888 A2	19891208	JP19890024156	19890201
JP1943880 C3	19950623	JP19890024156	19890201
JP2204499 A2	19900814	JP19890086484	19890405
JP2551142 B2	19961106	JP19890086484	19890405
JP3148227 A2	19910625	JP19900267946	19901004
JP6076425 B4	19940928	JP19890024156	19890201
KR0132567 B1	19980414	KR19890004430	19890404
KR970009151 B1	19970607	KR19890001240	19890201
MX9203467 A1	19920901	MX19920003467	19920626
NO177714 B	19950731	NO19890001389	19890403
NO177714 C	19951108	NO19890001389	19890403
NO891389 A	19891006	NO19890001389	19890403
NO891389 A0	19890403	NO19890001389	19890403
PH30960 A	19971223	PH19890038436	19890404
RU1826970 C	19930707	SU19894613896	19890404
RU2043365 C1	19950910	SU19925010972	19920227
SU1826970 A3	19930707	SU19894613896	19890404

US5217952 A	19930608	US19910794698	19911120
US5436140 A	19950725	US19940225915	19940411
ZA8902188 A	19891129	ZA19890002188	19890322

Priority:

GB19880002229 19880202	GB19880007921 19880405	EP19890105225 19890323
US19890333017 19890404	US19890304030 19890131	CA19890589804 19890201
CN19961021791 19961130	US19940225915 19940411	US19920987702 19921209
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Probable Assignee: FUJISAWA PHARMACEUTICAL CO

Assignee(s): (std)**:** FUJISAWA PHARMACEUTICAL CO ; FUJISAWA PHARMACEUTICAL INDUST ; FUJISAWA PHARMACEUTICAL KK ; NATIVELLE SA ETS

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Inventor(s): (std)**:** KINO TOURU ; SHIGEMATSU NOBUHARA ; TAKASE SHIGENIRO ; TOKHRU KINO ; TOHRU KINO ; TAKASE SHIGEHIRO ; SUMIO KIYOTO ; SUMIO KIJOTO ; SHIGEMATSU SHINJI ; SHIGEMATSU NOBUHARU ; SHIGEHIRO TAKASE ; SEIBI ESAKI ; SATOSHI OKADA ; OKUHARA MASAKUNI ; OKADA TATSU ; OKADA SATOSHI ; NOBUHARU SHIGEMATSU ; NISHIKAWA MOTOAKI ; MOTOAKI SAIKAWA ; MOTOAKI NISIKAVA ; MOTOAKI NISHIKAWA ; MASAMI IZAKI ; MASAMI EZAKI ; MASAKUNI OKUHARA ; KYO KINO ; KIYOTO SUMIO ; KINO TSUCHIUNA TOHRU ; KINO TORU ; KINO TOORU ; KINO TOHRU ; EZAKI MASAMI

Inventor(s): ESAKI SEIBI ; KINO KYO ; EZAKI MASAMI TSUKUBA SHI IBARAKI 305 JP ; KINO TOHRU TSUCHIURA SHI IBARAKI 300 JP ; KIYOTO SUMIO TSUKUBA SHI IBARAKI 305 JP ; NISHIKAWA MOTOAKI TSUKUBA SHI IBARAKI 305 JP ; OKADA SATOSHI TSUKUBA SHI IBARAKI 305 JP ; SAIKAWA MOTOAKI ; OKUHARA MASAKUNI TSUKUBA SHI IBARAKI 305 JP ; SHIGEMATSU NOBUHARU TSUKUBA SHI IBARAKI 305 JP ; SHIGEMATSU NOBUHARU JP ; TAKASE SHIGEHIRO TSUKUBA SHI IBARAKI 305 JP ; TSUCHIUNA TOHRU KINO ; TAKASE SHIGEHIRO JP ; EZAKI MASAMI JP ; KINO TOHRU JP ; KIYOTO SUMIO JP ; KYOTOO SUMIO ; NISHIKAWA MOTOAKI JP ; OKADA SATOSHI JP ; OKUHARA MASAKUNI JP

Agent(s): DAVIES COLLISON CAVE; OGILVY RENAULT LLP SENCRL SRL; SWABEY OGILVY RENAULT; REINHOLD COHN AND PARTNERS

Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

13) Family number: 30479779 (US2001029618A)

Title: Transgenic maize with increased mannitol content

Abstract: Source: US2001029618A The present invention provides a method for conferring tolerance or resistance to water or salt stress in a monocot plant, and/or altering the osmoprotectant content of a monocot plant, by introducing a preselected DNA segment into the plant. This invention also relates to the transformed cells and seeds, and to the fertile plants grown from the transformed cells and to their pollen.

Classifications:

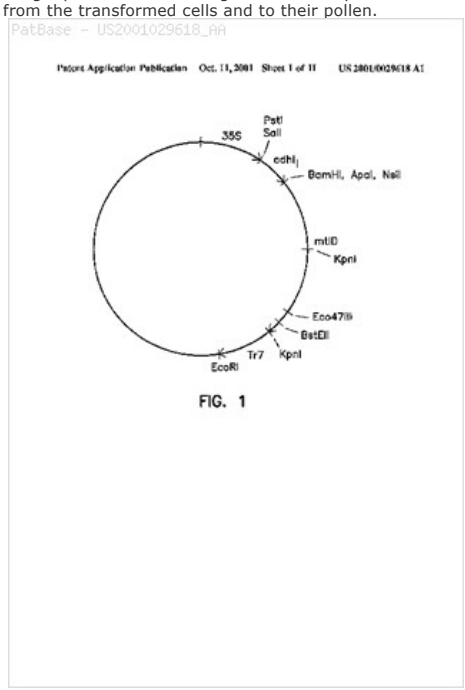
International (IPC 8-9): A01H1/00 A01H4/00 A01H5/00 A01H5/10 C07H21/04 C07K14/41 C07K14/415 C12N1/20 C12N15/05 C12N15/09 C12N15/11 C12N15/29 C12N15/52 C12N15/53 C12N15/60 C12N15/64 C12N15/66 C12N15/82 C12N15/87 C12N5/00 C12N5/04 C12N5/10 C12N9/04 C12N9/88 (Advanced/Invention);
A01H1/00 A01H5/00 C12N15/09 C12N15/29 C12N15/53 C12N15/60 C12N5/10 C12P13/22 C12P7/64 C12R1/91 (Advanced/Non-invention);
C07K14/41 C12N15/82 C12N5/10 (Core/Invention)

International (IPC 1-7): A01H1/00 A01H1/06 A01H4/00 A01H5/00 A01H5/10 A01N31/02 C07H21/04 C12N1/14 C12N1/20 C12N13/00 C12N15/00 C12N15/05 C12N15/09 C12N15/11 C12N15/29 C12N15/52 C12N15/53 C12N15/60 C12N15/64 C12N15/82 C12N15/87 C12N5/00 C12N5/00 C12N5/04 C12N5/10 C12N9/04 C12N9/10 C12N9/88 C12P13/22

CPC: C12N15/8216 C12N15/8251 C12N15/8254 Y10S47/01 A01H4/008 A01H4/00 A01H4/001 C07K14/415 C12N5/0025 C12N5/04 C12N15/8207 C12N15/87 C12N9/0006 C12N9/88 C12N15/8209 C12N15/8241 C12N15/8245 C12N15/8273

European: A01H4/00 A01H4/00B A01H4/00E C07K14/415 C12N15/82A6D C12N15/82A8 C12N15/82B C12N15/82C C12N15/82C4B10 C12N15/82C4B10B C12N15/82C4B2 C12N15/82C8B2 C12N15/87 C12N5/00M1 C12N5/04 C12N9/00P2 C12N9/88 M07K207/00 M12N207/00 M12N209/00

US: 435/108 435/108S 435/172.1 435/172.3 435/183 435/189 435/193 435/193P 435/232 435/240.4 435/240.45 435/240.5 435/252.3 435/287 435/320.1 435/320.100S 435/410 435/412 435/412S 435/413 435/419 435/419S 435/424 435/468 435/468S 47/58 47/DIG.1 536/23.2 536/23.200S 536/23.6 536/23.7 536/24.1 536/27.1 800/205 800/235 800/250 800/260 800/265 800/266 800/267 800/268 800/275 800/278 800/278P 800/279 800/279S 800/281 800/284 800/287 800/288 800/291 800/292 800/293 800/295 800/298 800/300 800/300.1 800/301 800/302 800/303 800/312 800/312S 800/320 800/320.1 800/320.100S 800/320.2 800/320.200S 800/320.3 800/320.300S 800/320S 800/DIG.52 800/DIG.55 800/DIG.56 800/DIG.58 935/52 935/55 935/67 935/85



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Priority:

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Probable Assignee: MONSANTO TECHNOLOGY LLC

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Inventor(s): O BRIAN JAMES V US ; NETTHEW C GRIFFOR ; O BRIEN JAMES V MYSTIC CT 06355 US ; KRIZ ALAN ; O'BRIEN JAMES V ; WILLETTS NANCY NIANTIC CT 06357 US ; GRIFFOR MATTHEW ; EMIL M OROZCO ; CHOMET PAUL ; ANDERSON PAUL ; JR ADAMS WHITNEY R

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Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SU SZ TD TG TJ TM TR TT UA UG US UZ VN

14) Family number: 10704472 (US5728810A)

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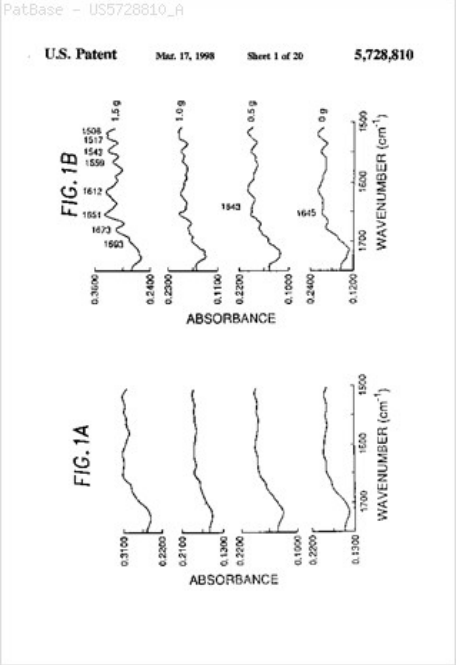
Title: Spider silk protein

Abstract: Source: US5728810A The present invention is directed to isolated cDNA which codes for spider silk protein or a fragment or variant thereof, a replicable vector containing cDNA which codes for spider silk protein and which is capable of expressing spider silk protein, a transformed cell or microorganism containing cDNA which codes for spider silk protein or a fragment thereof which is capable of expressing spider silk protein and products, such as fibers, which may be manufactured utilizing the recombinant protein of the present invention.

Classifications:
International (IPC 8-9): C07K14/00 C07K14/195 C07K14/435 C12N1/21 C12N15/09 C12N15/12 C12P21/02 (Advanced/Invention);
C12R1/19 (Advanced/Non-invention);
C07K14/00 C07K14/195 C07K14/435 C12N1/21 C12N15/09 C12N15/12 C12P21/02 (Core/Invention)
International (IPC 1-7): A61K38/17 C07H21/04 C07K13/00 C07K14/435 C07K15/08 C12N1/21 C12N15/09 C12N15/12 C12N15/63 C12P21/02 C12R1/19
CPC: C07K14/43518 C07K14/195 C07K2319/00 C07K2319/24 C07K2319/50
European: C07K14/195 C07K14/435A2A M07K207/00 M07K319/00 M07K319/24 M07K319/50
US: 435/252.3 435/252.33 435/320.1 530/350 530/353 536/23.5



Family:

Publication number	Publication date	Application number	Application date
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US5728810 A	19980317	US19950425069	19950419
US5989894 A	19991123	US19940317844	19941004

Priority:

US19900511792 19900420 US19910684819 19910415 US19940317844 19941004
US19950425069 19950419

Probable Assignee: UNIV WYOMING

Assignee(s): (std): UNI WAIOMINGU ; UNIV WAIOMINGU ; UNIV WYOMING ; UNIV WYOMING LARAMIE

Assignee(s): YUNIBAASHITEI OBU WAIOMINGU ; UNIVERSITY OF WYOMING ; OF WYOMING UNIV ; THE UNIVERSITY OF WYOMING ; THE UNIVERSITY OF WYOMING LARAMIE

Inventor(s): (std): HINMAN MICHAEL B ; LEWIS RANDOLPH V ; MAIKERU BII HINMAN ; MIN KUU ; RANDORUFU BUI RUISU ; XU MING ; XU MING DEPT MEDICAL PHYSIOLOG ; HINMAN MICHAEL

Inventor(s): XU MING DEPT MEDICAL PHYSIOLOGY BIOCHEMISTRY

Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

15) Family number: 27915867 (US5164403A)

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Title: N-ARYLHETEROARYLALKYL IMIDAZOL-2-ONE COMPOUNDS FOR TREATMENT OF CIRCULATORY DISORDERS

Abstract: Source: US5164403A A class of N-arylheteroarylalkyl imidazol-2-one compounds is described for use in treatment of circulatory disorders such as hypertension and congestive heart failure. Compounds of particular interest are angiotensin II antagonists of the formula wherein A is selected from wherein m is one; wherein R1 is selected from methyl, ethyl, n-propyl, isopropyl, n-butyl, sec-butyl, isobutyl, tert-butyl, 4-methylbutyl, n-pentyl, neopentyl, phenyl, benzyl, phenethyl, cyclohexyl, cyclohexylmethyl, cyclohexylethyl, cyclohexanoyl, 1-oxo-2-cyclohexylethyl, benzoyl, 1-oxo-2-phenethyl, 1-oxopropyl, 1-oxobutyl, 1-oxopentyl and 2-hydroxybutyl; wherein R0 is selected from hydrido, methyl, fluoro, chloro, monofluoromethyl, difluoromethyl, trifluoromethyl, formyl, carboxyl and dimethoxymethyl; wherein R2 is selected from methyl, ethyl, n-propyl, isopropyl, n-butyl, sec-butyl, isobutyl, tert-butyl, n-pentyl, isopentyl, neopentyl, phenyl, benzyl, phenethyl, cyclohexyl, cyclohexylmethyl, propylthio, butylthio, and hydroxyalkyl; wherein each of R3, R4, R6, R7, R8, R9, R10 and R11 is hydrido and R5 must be selected from COOH, SH, PO3H2, SO3H, CONHNH2, CONHNHSO2CF3, OH, NNNHR42 and+RE wherein each of R42 and R43 is independently selected from chloro, cyano, nitro, trifluoromethyl, methoxycarbonyl and trifluoromethylsulfonyl; or a tautomer thereof or a pharmaceutically-acceptable salt thereof.

Classifications:

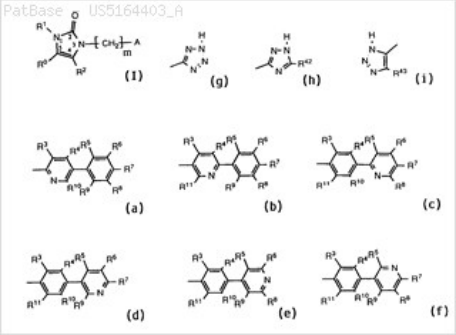
International (IPC 8-9): A61K31/44 A61K31/4439 A61K31/535 A61K31/675 C07D401/06 C07D401/10 C07D401/14 C07D409/14 C07D413/14 C07F9/547 (Advanced/Invention)

International (IPC 1-7): A01N43/30 A01N43/40 A61K31/411 A61K31/415 A61K31/44 A61K31/445 A61K31/505 A61K31/535 A61K31/675 C07D401/00 C07D401/06 C07D401/06 C07D401/10 C07D401/14 C07D409/14 C07D413/00 C07D413/14 C07D417/04 C07F9/547

CPC: C07D401/06 A61K31/4439 C07D401/10 C07D401/14

European: A61K31/4439 C07D401/06 C07D401/10 C07D401/14

US: 514/235.8 514/318 514/326 514/337 514/338 514/340 514/341 514/345 514/346 514/350 514/351 546/270.1 546/270.4 546/271.1 546/271.7 546/272.1 546/272.4 546/274.4



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US5164403 A	19921117	US19910681011	19910405
US5441970 A	19950815	US19930107742	19930819
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Priority:

US19910681011 19910405
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US19930107742 19930819
US19980196876 19981120

Probable Assignee: PHARMACIA CORP

Assignee(s): (std): G D SEARLE AND CO ; C D SEARLE AND CO ; PHARMACIA CORP ; SEARLE AND CO

Assignee(s): REITZ DAVID B ; G D SEARLE AND CO CHICAGO ILL US ; GD SEARLE AND CO ; GD SEARLE AND CO PO BOX 5110 CHICAGO IL 60680 A DE ; MANNING ROBERT E

Inventor(s): (std): ROBERT E MANNING ; DAVID B REITZ ; REITZ DAVID B ; MANNING ROBERT E ; REITZ DAVID ; MANNING ROBERT

Agent(s): OSLER HOSKIN AND HARCOURT LLP

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IT JP KP KR LI LK LU MC MG ML MN MR MW NL NO PL PT RO RU SD SE SN TD TG US

16) Family number: 9390489 (US5885967A)

Title: ANTITHROMBOTIC AGENTS

Abstract: Source: US5885967A This invention relates to peptide derivatives, pharmaceutical formulations containing those compound and methods of their use as thrombin inhibitors.

Classifications:

International (IPC 8-9): A61K31/395 A61K31/445 A61K38/05 A61K38/55 A61P7/02 C07C279/12 C07C311/03 C07D207/16 C07D211/60 C07D401/02 C07D403/02 C07D405/02 C07D409/02 C07D413/02 C07D417/02 C07K5/06 C07K5/065 C07K5/068 C07K5/078 (Advanced/Invention);
A61K38/00 (Advanced/Non-invention);
A61K31/445 A61K38/55 A61P7/00 C07C279/00 C07C311/00 C07D207/00 C07D211/00 C07K5/00 (Core/Invention);
A61K38/00 (Core/Non-invention)

International (IPC 1-7): A01N43/00 A01N43/42 A61K31/395 A61K31/40 A61K31/445 A61K31/55 A61K38/00 A61K38/05 A61K38/55 A61K43/38 C07C279/12 C07C311/03 C07D207/08 C07D207/16 C07D211/30 C07D211/32 C07D211/60 C07D211/72 C07D215/38 C07D321/00 C07D401/02 C07D403/02 C07D405/02 C07D409/02 C07D413/02 C07D417/02 C07K5/00 C07K5/06 C07K5/068 C07K5/078

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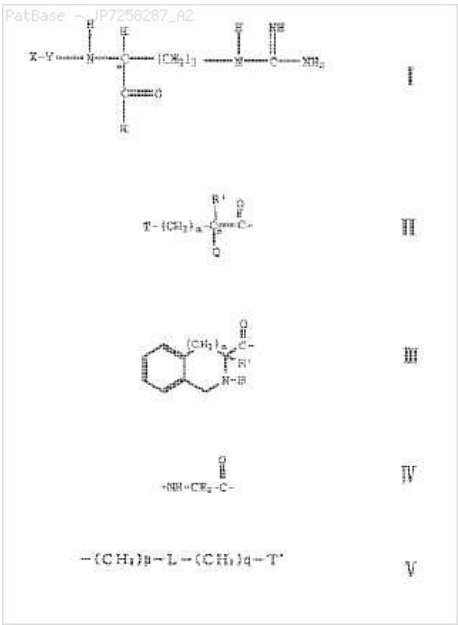
European: K61K38/00

US: 514/13.7 514/183 514/19 514/20.1 514/20.3 514/21.91 514/210 514/213 514/213.01 514/217.01 514/222.2 514/227.8 514/228.8 514/247 514/248 514/252.1 514/277 514/299 514/307 514/311 514/313 514/314 514/318 514/323 514/326 514/329 514/330 514/331 514/336 514/365 514/366 514/374 514/375 514/385 514/393 514/408 514/412 514/414 514/415 514/419 514/422 514/423 514/426 514/430 514/449 514/613 514/617 514/618 514/631 530/332 540/593 540/594 544/224 544/233 544/56 544/63 544/73 546/152 546/164 546/171 546/174 546/175 546/192 546/225 546/226 546/231 546/245 546/268.1 546/295 546/492 548/146 548/148 548/215 548/217 548/400 548/416 548/452 548/467 548/469 548/483 548/484 548/486 548/492 548/517 548/535 548/567 564/161 564/162 564/163 564/164 564/189 564/191



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DE69507062 T2	19990610	DE19956007062T	19950303
DK0672659 T3	19990517	DK19950301390T	19950303
EP0672659 A1	19950920	EP19950301390	19950303
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US5885967 A	19990323	US19940206351	19940304
US6090787 A	20000718	US19990267476	19990311
US6124277 A	20000926	US19990266295	19990311

Priority:

US19940206351 19940304 CA19952143536 19950228 US19990266295 19990311
US19990267476 19990311 EP19950301390 19950303

Probable Assignee: LILLY CO ELI

Assignee(s): (std): LILLY CO ELI

Assignee(s): SCHACHT AARON L ; SMITH GERALD F ; WILEY MICHAEL R ; ELI LILLY AND CO ; ELI LILLY AND CO INDIANAPOLIS IND US ; ELI LILLY AND COMPANY

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Inventor(s): SCHACHT AARON LEIGH INDIANAPOLIS INDIANA 46278 US ; SMITH GERALD FLOYD INDIANAPOLIS INDIANA 46217 US ; WILEY MICHAEL ROBERT INDIANAPOLIS INDIANA 46268 US

Agent(s): GOWLING LAFLEUR HENDERSON LLP

Designated states: AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

17) Family number: 43193118 (ZA9504548A) © PatBase

Title: Monoamine diamide thiol-containing metal chelating agents

Abstract: The invention relates to radiopharmaceuticals and methods of making and using such radiopharmaceuticals. The invention particularly relates to reagents and method for targeting radiopharmaceuticals for sites within a mammalian body for imaging such sites and for effecting a therapeuitc effect at such sites, using radiolabeled imaging agents and radiotherapeutic agents, respectively. The invention provides reagents for preparing such radiolabeled radiodiagnostic and radiotherapeutic agents and the radio labeled reagents per se as radiopharmaceuticals. The invention specifically provides such reagents comprising targeting molecules covalently linked to monoamine, diamide, thiol-containing metal chelators. Methods of making such reagents, and methods of using the radiopharmaceuticals produced therefrom are also provided.
Classifications:
International (IPC 8-9): A61K47/48 A61K51/00 A61K51/08 C07C323/24 C07C323/51 C07K1/13 C07K14/00 C07K7/00 C09K3/00 (Advanced/Invention);
A61K47/48 C07K1/00 C07K14/00 C07K7/00 (Core/Invention)
International (IPC 1-7): A61K A61K51/00 A61K51/08 C07C323/24 C07C323/51 C09K3/00
CPC: A61K51/082 A61K51/083 A61K51/088 A61K2121/00 A61K2123/00
European: A61K51/08 A61K51/08Z K61K121/00 K61K123/00

Family:

Publication number	Publication date	Application number	Application date
BRPI9507917 A	19970812	BR1995PI07917	19950601
CA2191951 AA	19961203	CA19952191951	19950601
CA2191951 C	20090127	CA19952191951	19950601
CN1093424 C	20021030	CN19951094356	19950601
CN1158090 A	19970827	CN19951094356	19950601
EP0804252 A2	19971105	EP19950922159	19950601
EP0804252 B1	20030813	EP19950922159	19950601
JP10501531 T2	19980210	JP19960501181T	19950601
WO9533497 A1	19951214	WO1995US06914	19950601
ZA9504548 A	19960315	ZA19950004548	19950602

Priority:
US19940253973 19940603 WO1995US06914 19950601

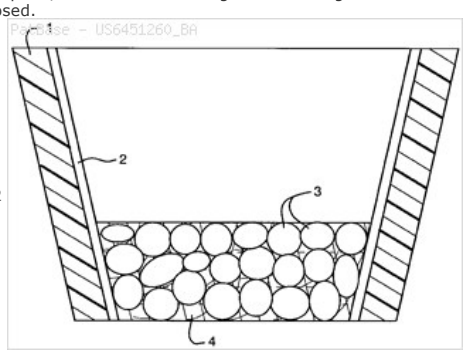
Probable Assignee: CIS BIO INT
Assignee(s): (std): DIATECH INC ; DIATIDE INC
Assignee(s): MCBRIDE WILLIAM ; BERLEX LABORATORIES INC ; CIS BIO INT ; DEAN RICHARD T
Inventor(s): (std): DEAN R T ; DEAN RICHARD T ; MCBRIDE W ; MCBRIDE WILLIAM
Inventor(s): R T DEAN ; RICHARD T DEAN ; W MCBRIDE ; WILLIAM MCBRIDE
Agent(s): MBM INTELLECTUAL PROPERTY LAW LLP
Designated states: AT AU BE BR CA CH CN DE DK ES FR GB GR IE IT JP KR LI LU MC NL PT SE

18) Family number: 13023187 (US6451260B)

© PatBase

Title: Method for producing microporous elements, the microporous elements thus produced and uses thereof

Abstract: Source: US6451260B Described are novel methods for producing microporous elements and microporous elements obtainable by such methods. Provided are also microporous elements including solid microparticles, which preferably modify the adsorptive properties of the microporous element. Described are also microporous elements which are linked to a support and/or a retainer as well as methods for their production. Filter elements comprising the above-described microporous elements are also provided. Furthermore, kits, diagnostic and pharmaceutical compositions comprising the aforementioned microporous or filter elements are described. Furthermore, uses of the aforementioned microporous and filter elements in microfiltration, chromatography, adsorption/immobilization of organic and inorganic compounds as well as for the preparation and/or detection of such compounds are disclosed.



Classifications:
International (IPC 8-9): B01D15/08 B01D29/11 B01D39/16 B01D39/20 B01D61/00 B01D61/14 B01D61/18 B01D63/08 B01D67/00 B01D69/06 B01D69/10 B01D69/14 B01D71/08 B01D71/38 B01J20/00 B01J20/22 B01J20/26 B01J20/28 B01J20/281 B01L3/00 B01L3/02 B27N3/08 B27N3/10 C08J9/28 C12M1/12 C12Q1/68 G01N1/34 G01N15/06 G01N15/08 G01N30/60 G01N33/48 G01N33/543 (Advanced/Invention); B01D15/22 B01D15/32 B01D15/36 B01D15/38 B01D39/16 B01J20/32 B01L3/00 B01L3/02 C08L101/00 G01N1/34 G01N1/40 (Advanced/Non-invention); B01D15/08 B01D29/11 B01D39/16 B01D61/00 B01D61/14 B01D61/18 B01D63/08 B01D67/00 B01D69/00 B01D71/00 B01J20/00 B01J20/22 B01J20/28 B01L3/00 B01L3/02 C08J9/00 C12M1/12 (Core/Invention); C08L101/00 G01N1/34 (Core/Non-invention)
International (IPC 1-7): B01D15/08 B01D29/11 B01D39/16 B01D61/14 B01D61/18 B01D67/00 B01D69/10 B01D71/38 B01J20/00 B01J20/26 B27N3/08 B27N3/10 C08J9/28 C08L101/00 G01N15/06 G01N33/00 G01N33/48
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US: 264/239 264/257 422/100 422/283 422/423 422/424 422/68.1

Family:

Publication number	Publication date	Application number	Application date
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EP0826412 A2	19980304	EP19960120279	19961217
EP0826412 A3	19990602	EP19960120279	19961217
EP0826413 A1	19980304	EP19960113653	19960826
EP0958035 A2	19991124	EP19970942879	19970826
EP0958035 B1	20121107	EP19970942879	19970826
ES2395388 T3	20130212	ES19970942879T	19970826
JP2002513323 T2	20020508	JP19980511279T	19970826
JP4387462 B2	20091216	JP19980511279T	19970826
US6451260 BA	20020917	US19990242786	19990309
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WO9808594 A3	19980507	WO1997EP04653	19970826

Priority:

EP19960113653 19960826 EP19960120279 19961217 EP19970942879 19970826
WO1997EP04653 19970826

Probable Assignee: EHRENFRIED MEHL

Assignee(s): (std): DUESTERHOEFT ANDREAS ; DYAX CORP ; MAX PLANCK GES ; LOTTSPEICH F ; MANZ THOMAS ; LOTTSPEICH FRIEDRICH DR ; MEHL EHRENFRIED ; MAX PLANCK GESELLSCHAFT ; QIAGEN GMBH ; MEHL EHRENFRIED DR

Assignee(s): MAX PLANCK GESELLSCHAFT ZUR FOERDERUNG ; MAX PLANCK GESELLSCHAFT ZUR FORDERUNG DER WISSENSC ; MAX PLANCK GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN E V ; MAX PLANCK GESELLSCHAFT ZUR FOERDERUNG DER WISSENSCHAFTEN E V BERLIN ; MAX PLANCK GESELLSCHAFT ZUR FOERDERUNG DER WISSENSCHAFTEN E V ; MAX PLANCK GESELLSCHAFT ZUR FOERDERUNG DER WISSENSC ; MAX PLANCK GES ZUR FOERDERUNG DER WISSENSCHAFTEN EV BERLIN ; MAX PLANCK GES ZUR FOERDERUNG DER WISSENSCHAFTEN EV ; MAX PLANCK GES ZUR FORDERUNG DER WISSENSCHAFTEN EV ; MAX PLANCK GES ZUR FOERDERUNG DER WISSENSCHAFTEN E ; MAX PLANCK GES ZUR FOERDERUNG DER WISSENSC ; MAX PLANCK GES ZUR FORDERUND DER WISSENSCHAFTEN EV ; MAX PLANCK GESELLSCHAFT ZUR FOERDERUNG DER WISSENS ; MAX PLANCK GES ZUR FOERDERUNG ; LOTTSPEICH FRIEDRICH ; EHRENFRIED MEHL KATHARINENSTRASSE ; EHRENFRIED MEHL

Inventor(s): (std): DUESTERHOEFT ANDREAS ; LOTTSPEICH FRIEDRICH ; MANZ THOMAS ; MEHL EHRENFRIED ; MEHL EHRENFRIED DR ; LOTTSPEICH FRIEDRICH DR ; DUSTERHOFT ANDREAS

Inventor(s): THOMAS MANZ ; FRIEDRICH LOTTSPEICH ; EHRENFRIED MEHL ; ANDREAS DUSTERHOFT

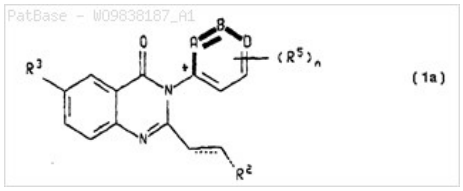
Agent(s): VOSSIUS AND PARTNER; VALLEJO JUAN PEDRO

Designated states: AT AU BE CA CH CN DE DK ES FI FR GB GR IE IT JP KP KR LI LU MC NL PT SE US

19) Family number: 21885186 (US6380204B) © PatBase

Title: Atropisomers of 3-heteroaryl-4(3H)-quinazolinones for the treatment of neurodegenerative and CNS-trauma related conditions

Abstract: Source: US6380204B The present invention relates to novel atropisomers of 3-heteroaryl-4(3H)-quinazolinones of the formula Ia, and their pharmaceutically acceptable salts, and pharmaceutical compositions and methods of treating neurodegenerative and CNS-trauma related conditions.



Classifications:
International (IPC 8-9): A01N43/56 A61K31/12 A61K31/395 A61K31/505 A61K31/517 A61P25/00 A61P43/00 A61P9/00 C07D239/80 C07D239/82 C07D239/88 C07D243/34 C07D243/38 C07D401/04 C07D401/14 C07D403/14 C07D413/14 C07D417/06 C07D417/14 C07D491/10 C07D491/113 (Advanced/Invention); A61K31/517 A61P25/00 A61P43/00 A61P9/00 C07D401/14 (Advanced/Non-invention); C07D (Subclass/Invention)
International (IPC 1-7): A01N43/54 A01N43/56 A61K31/12 A61K31/395 A61K31/505 A61K31/517 A61P21/02 A61P25/00 A61P25/00 A61P43/00 A61P43/00 A61P9/00 A61P9/00 C07C401/04 C07C401/14 C07D235/00 C07D239/82 C07D239/88 C07D243/34 C07D243/38 C07D401/04 C07D401/14 C07D403/14 C07D405/14 C07D413/14 C07D417/06 C07D417/14 C07D491/113
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US: 514/259 514/266.21 544/284 544/290

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Priority:

US19970038540P 19970228 US19970038540 19970228 WO1998IB00151 19980206 US20000380114 20000113

Probable Assignee: PFIZER

Assignee(s): (std): PFIZER ; PFIZER PRODUCTS INC ; WELCH WILLARD MCKOWAN JR ; PRIZER PRODUCTS INC ; PFIZER PROD INC ; CHENARD BERTRAND LEO ; DEVRIES KEITH MICHAEL ; INC PFIZER PRODUCTS

Assignee(s): KEITH MICHAEL DEVRIES ; PFIZER INC ; PFIZER PRODUCTS INC GROTON CONNECTICUT ; PFIZER PRODUCTS INC GROTON

Inventor(s): (std): BERTRAND LEO CHENARD ; BERTRAND LEO CHENNARD ; CHENARD B L ; CHENARD BERTRAN LEO ; CHENARD BERTRAND ; CHENARD BERTRAND L ; CHENARD BERTRAND LEO ; CHENARD LEO ; DEVRIES K M ; DEVRIES KEITH M ; DEVRIES KEITH MICHAEL ; DEVRIES MICHAEL ; INC PFIZER PRODUCTS ; JR WELCH WILLARD MCKOWAN ; JR WILLARD MCKOWAN WELCH ; KEITH MICHAEL DEVRIES ; MCKOWAN WELCH JR WILLARD ; VRIES KEITH MICHAEL DE ; WELCH JR WILLARD MCKOWAN ; WELCH JUN WILLARD M ; WELCH MCKOWAN ; WELCH W M JR ; WELCH WILLARD MCKOWAN ; WELCH WILLARD MCKOWAN JR ; WELCH WILLARD MCKOWAN JR I ; WELCH WINARD MCKOWAN JR ; WILLARD MC KOWAN WELCH JR ; WILLARD MCKOWAN WELCH JR

Inventor(s): WILLARD MCKOWAN JR WELCH ; WILLARD MCKOWAN WELCH ; WELCH JUN ; W M WELCH JR ; WELCH JR ; PFIZER PRODUCTS INC ; B L CHENARD ; BERTRAN LEO CHENARD ; K M DEVRIES ; KEITH MICHAEL DE VRIES

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SMART AND BIGGAR; CARLOS REINALDO OLARTE GARCIA

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GH GM GN GR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

20) Family number: 46262242 (US6133166A)

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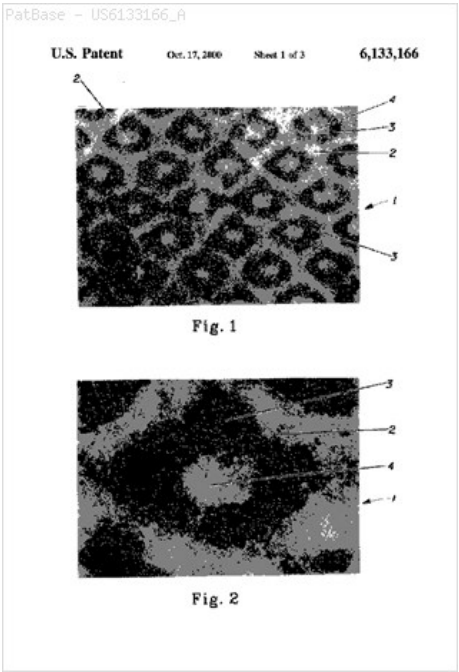
Title: CLEANING ARTICLES COMPRISING A CELLULOSIC FIBROUS STRUCTURE HAVING DISCRETE BASIS WEIGHT REGIONS TREATED WITH A HIGH INTERNAL PHASE INVERSE EMULSION

Abstract: Source: US6133166A Disclosed are articles useful in cleansing, and particularly wet-like cleansing wipes, which are dry until used, where fluid is released from the article. These articles comprise: a. a carrier comprising a cellulosic fibrous structure having at least a first region of relatively high basis weight that comprises an essentially continuous network and a second region of a plurality of mutually discrete regions of relatively low basis weight which are circumscribed by the high basis weight first region; and b. an emulsion applied to the carrier, where the emulsion provides fluid for cleaning when shear forces are applied to the article. The first and second regions of the cellulosic fibrous structure are disposed in a nonrandom, repeating pattern. The articles offer a number of significant advantages over prior cleaning products when in the form of wet-like cleansing wipes such as those used for cleaning of hardsurfaces (e.g., floors, countertops, sinks, bathtubs, toilets, and the like). The inclusion of low basis weight regions avoids substantial fluid retention by the cellulosic fibrous substrate, which allows fluid delivery to the surface being cleaned. The articles can be used in many applications requiring the delivery of polar materials, in particular water and water-soluble or dispersible actives. These include toilet tissue, wipes for personal cleansing, such as baby wipes, as well as those for the delivery of water-soluble or dispersible antimicrobials or pharmaceutical actives.

Classifications:
International (IPC 8-9): A47L13/16 A47L13/17 A61K8/00 A61K8/02 A61K8/31 A61K8/66 A61K8/73 A61K8/92 A61K8/97 A61K8/98 A61K9/70 A61Q19/10 C11D17/04 C11D3/18 C11D3/39 C11D3/48 D21H17/27 D21H17/39 D21H19/16 (Advanced/Invention);
A61K8/00 A61K8/92 C11D17/04 (Advanced/Non-invention);
A47L13/16 A61K8/00 A61K8/02 A61K8/30 A61K8/72 A61K8/92 A61K8/96 A61Q19/10 C11D17/04 C11D3/18 C11D3/39 C11D3/48 (Core/Invention)
International (IPC 1-7): A01N25/34 A47L13/16 A47L13/17 A61K7/00 A61K7/50 A61K9/70 B32B9/06 C11D C11D17/04 C11D3/00 C11D3/18 C11D3/39 C11D7/24 D04H01/46 D21H17/27 D21H17/39 D21H19/16
CPC: Y10T428/31801 Y10T428/31808 Y10T428/31993 Y10T442/2016 C11D3/48 A61K8/0208 A61Q19/10 C11D3/18 C11D3/3947 C11D17/049
European: A61K8/02C A61Q19/10 C11D17/04F C11D3/18 C11D3/39H C11D3/48
US: 424/402 428/484 428/484.1 428/486 428/537.5 442/61



Family:

Publication number	Publication date	Application number	Application date
AR016123 AA	20010620	AR1998P103192	19980701
AU199882776 A1	19990125	AU19980082776	19980701
BRPI9810660 A	20000829	BR1998PI10660	19980701
CA2295743 AA	19991230	CA19982295743	19980701
CA2295743 C	20030422	CA19982295743	19980701
CO5070645 A1	20010828	CO19980037133	19980701
EP0994940 A1	20000426	EP19980933011	19980701
HU0003791 AB	20010328	HU20000003791	19980701
HU0003791 AC	20011128	HU20000003791	19980701
ID29261 A	20010816	ID20000000192	19980701
IL133853 A0	20010430	IL19980133853	19980701
JP2002509463 T2	20020326	JP19990507312T	19980701
KR100334566 B1	20020503	KR19997012627	19991231
KR20010014434 A	20010226	KR19997012627	19991231
NO996582 A	20000301	NO19990006582	19991230
NO996582 A0	19991230	NO19990006582	19991230
PE101999 A1	19991201	PE19980000583	19980701
TH32757 A	19990320	TH19981002472	19980630
TR9903323 T2	20000721	TR19990003323T	19980701
TW432135 B	20010501	TW19980110651	19981007
US6133166 A	20001017	US19970886764	19970701
WO9901536 A1	19990114	WO1998US13627	19980701
ZA9805737 A	19990119	ZA19980005737	19980630

Priority:
US19970886764 19970701 WO1998US13627 19980701

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE CO ; THE PROCTOR AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE CO CINCINNATI OHIO ; PROCTOR AND GAMBLE CO ; BARNHOLTZ STEVEN LEE ; CABELL DAVID WILLIAM ; NISSING NICHOLAS JAMES

Inventor(s): (std): BARNHOLTZ STEVEN LEE ; BARNHOLTZ STEVENLEE ; CABELL DAVID WILLIAM ; NISSING NICHOLAS JAMES ; DAVID WILLIAM CABELL

Inventor(s): NICHOLAS JAMES NISSING ; NISSING NICHOLAS JAMES NISSING NICHOLAS JAMES ; STEVEN LEE BARNHOLTZ ; STEVENLEE BARNHOLTZ ; CABELL DAVID WILLIAM CABELL DAVID WILLIAM ; BARNHOLTZ STEVEN LEE BARNHOLTZ STEVEN LEE

Agent(s): SIM AND MCBURNEY; CARLOS REINALDO OLARTE GARCIA

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZW

21) Family number: 30108920 (US2002019580A)

Title: EXPANDABLE CARDIAC HARNESS FOR TREATING CONGESTIVE HEART FAILURE

Abstract: Source: US2002019580A A cardiac harness for treating congestive heart failure is disclosed. The harness applies elastic, compressive reinforcement on the left ventricle to reduce deleterious wall tension and to resist shape change of the ventricle during the mechanical cardiac cycle. Rather than imposing a dimension beyond which the heart cannot expand, the harness provides no hard limit over the range of diastolic expansion of the ventricle. Instead, the harness follows the contour of the heart throughout diastole and continuously exerts gentle resistance to stretch. Also disclosed is a method of delivering the cardiac harness to the heart minimally invasively.

Classifications:
International (IPC 8-9): A61B17/00 A61F13/00 A61F2/00 A61N1/05 A61N1/362 A61N1/375 B23P15/00 C07C233/58 C07C233/87 C07C235/14 C07C271/22 C07C69/78 C07D493/04 (Advanced/Invention);
A61F2/24 (Advanced/Non-invention);
A61F2/00 C07C233/00 C07C235/00 C07C271/00 (Core/Invention);
A61F2/24 (Core/Non-invention)
International (IPC 1-7): A61B17/00 A61B19/00 A61F13/00 A61F2/00 A61F2/04 A61N1/05 A61N1/362 A61N1/375 C07C235/14 C07C271/22 C07C69/78 C07D305/00 C07D493/04 H61F2/00
CPC: C07C233/58 C07C233/87 C07C235/14 C07C271/22 C07C2102/44 A61M1/1003 A61M1/1048 A61M1/1056 A61M1/122 A61F2/2481 A61F2002/0072 A61F2002/2484 A61M1/1068 A61M1/127 A61M2205/0266 A61M2205/3523 A61M2205/8206 A61N1/0587 A61N1/3627 Y10T29/49995
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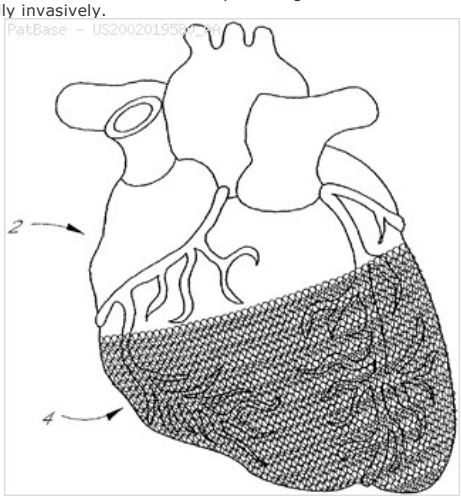
US: 148/402 148/563 216/75 29/557 600/16 600/16S 600/37 600/37P 607/129 607/129P



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AU200138383 A5	20010924	AU20010038383	20010216
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EP1198461 A2	20020424	EP20000947487	20000717
EP1261294 A1	20021204	EP20010910816	20010216
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US2002019580 AA	20020214	US20010952145	20010910
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US2004106848 AA	20040603	US20030693577	20031023
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US2005102016 AA	20050512	US20040008733	20041208
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US7097611 BB	20060829	US20030705989	20031112
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US7189202 BB	20070313	US20030693577	20031023
US7238152 BB	20070703	US20040865086	20040609
US7276022 BB	20071002	US20040012833	20041214
US7410461 BB	20080812	US20020314696	20021209
WO0105779 A2	20010125	WO2000US19524	20000717
WO0105779 A3	20010816	WO2000US19524	20000717
WO0167985 A1	20010920	WO2001US05017	20010216

Priority:

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US20040012833 20041214
US20030705989 20031112

Probable Assignee: PARACOR MEDICAL INC

Assignee(s): (std): ARAD DORIT ; BOLLON ARTHUR P ; CYTOCLONAL PHARMACEUTICS INC ; LAU LILIP ; PARACOR MEDICAL INC ; PARACOR SURGICAL INC ; POLAND BRADLEY W ; YOUNG DAVID C ; HARTIGAN BILL

Inventor(s): (std):	BOLLON ARTHUR P ; ARAD DORIT ; HARTIGAN BILL ; LAU LILIP ; POLAND BRADLEY W ; YOUNG DAVID C
Inventor(s):	LILIP LAU ; ARTHUR P BOLLON ; BILL HARTIGAN ; BRADLEY W POLAND ; DAVID C YOUNG ; DORIT ARAD
Agent(s):	FB RICE; KIRBY EADES GALE BAKER; FETHERSTONHAUGH AND CO; FULWIDER PATTON LEE AND UTECHT LLP HOWARD HUGHES CENTER; FULWIDER PATTON LEE AND UTECHT LLP, HOWARD HUGHES CENTER; FULWIDER PATTON LLP
Designated states:	AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

22) Family number: 30949963 (US2003199077A)

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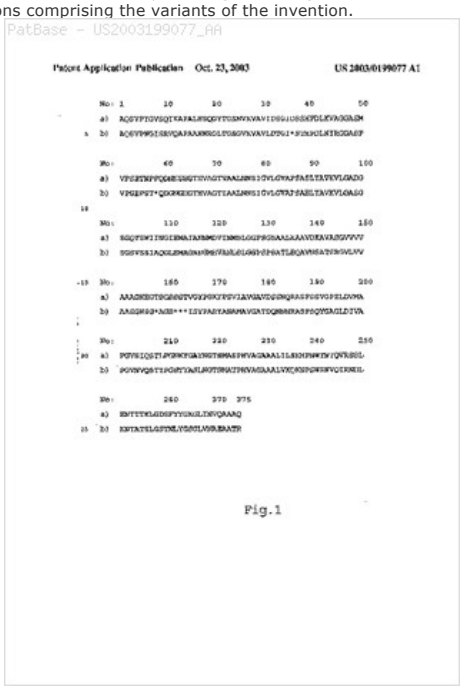
Title: Subtilase variants having an improved wash performance on egg stains

Abstract: Source: US2003199077A The present invention relates to the use of a subtilase variant for removal of egg stains from laundry or from hard surfaces, where the subtilase variant comprises at least one additional amino **acid** residue in the active site loop (b) region from position 95 to 103 (BASBPN numbering). These subtilase variants are useful exhibiting excellent or improved wash performance on egg stains when used in e.g. cleaning or detergent compositions, including automatic dishwash compositions. The present invention also relates to novel subtilase variants, to isolated DNA sequences encoding the variants, expression vectors, host cells, and methods for producing and using the variants of the invention. Further, the present invention relates to cleaning and detergent compositions comprising the variants of the invention.

Classifications:
International (IPC 8-9): C11D3/386 C12N1/15 C12N1/19 C12N1/21 C12N15/09 C12N15/57 C12N15/63 C12N9/54 C12N9/56 (Advanced/Invention);
C12R1/125 (Advanced/Non-invention);
C11D3/38 C12N1/15 C12N1/21 C12N15/09 C12N15/57 C12N9/52 (Core/Invention)
International (IPC 1-7): C11D3/386 C11D33/86 C11D7/42 C12N1/15 C12N1/21 C12N15/09 C12N15/57 C12N15/74 C12N9/54 C12N9/56 G06F19/00 G09G5/42
CPC: C11D3/38636 C12N9/54
European: C11D3/386E C12N9/54
US: 435/220 435/221 435/222 435/252.3 435/263 435/263P 435/264 435/264S 435/320.1 435/471 435/69.1 510/226 510/226S 510/320 510/320S 510/392 536/23.2



Family:

Publication number	Publication date	Application number	Application date
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AU782372 B2	20050721	AU20010016939	20001201
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CA2394971 C	20160119	CA20002394971	20001201
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CN101974375 B	20140702	CN201010509930	20001201
CN1415011 A	20030430	CN20008017845	20001201
CN1415011 B	20101208	CN20008017845	20001201
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IN218913 B	20080606	IN2002CN00893	20020613
JP2003516751 T2	20030520	JP20010545529T	20001201
JP2012034696 A2	20120223	JP20110196873	20110909
JP2014064590 A2	20140417	JP20130266689	20131225
JP5859782 B2	20160216	JP20110196873	20110909
US2003199077 AA	20031023	US20000736116	20001213
US6727085 BB	20040427	US20000736116	20001213
WO0144452 A1	20010621	WO2000DK00660	20001201

Priority:

DK19990001792	19991215	US20000487953	20000119	DK20000000708	20000501
DK20000001527	20001003	DK20000001524	20001013	WO2000DK00660	20001201
DK20000001527	20001013	US20000574417	20000519	US20000241207P	20001017
JP20010545529	20001201	US20000736116	20001213	JP20110196873	20001201
JP20010545529T	20001201				

Probable Assignee: NOVOZYMES A S

Assignee(s): (std)**:** NOVOZYME AS ; NOVOZYMES AS ; NOVOZYMES A S

Assignee(s): NOVOZYMES A S KROGSHOEJVEJ ; FANO TINA SEJERSGAARD ; FANO TINA SEJERSGARD ; FANOE TINA SEJERSGAARD ; MIKKELSEN FRANK ; MIKKELSEN FRANK F

Inventor(s): (std)**:** SEJERSGAARD FANO TINA ; MIKKELSEN FRANK F ; FANOE TINA SEJERSGAARD ; MIKKELSEN FRANK ; MIKKELSEN F F ; FANO TINA SEJERSGARD ; FANO T S ; FANO TINA SEJERSGAARD ; FF MIKKELSEN ; FRANK F MIKKELSEN ; TINA SEJERSGAARD FANO ; TS FANO

Inventor(s): T S FANO ; F F MIKKELSEN

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; JENSEN BO HAMMER; TSURUTA JUNICHI; NISHIYAMA MASAYA; HIGUCHI SOTOJI; ISHIDA TAKASHI; KOGA TETSUJI; AOKI ATSUSHI; FUKUMOTO TSUMORU

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

23) Family number: 30044332 (US2002039747A) © PatBase

Title: MAPPING OF DIFFERENTIAL DISPLAY OF PROTEINS

Abstract: Source: US2002039747A The present invention relates to protein separation systems and methods capable of resolving and characterizing large numbers of cellular proteins. In particular, the present invention provides a novel mass mapping system and methods for the differential display of proteins. The present invention further provides novel methods for displaying differential protein expression between two samples. In particular, the present invention provides novel method of mapping differential expression of proteins in non-cancerous, pre-cancerous, and cancerous cells.

Classifications:

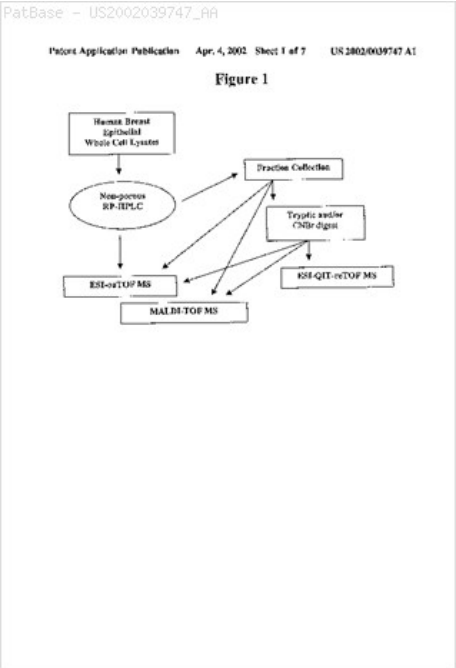
International (IPC 8-9): B01D15/08 B01J20/281 B01J20/283 C07K1/00 C07K1/04 C07K1/16 C07K1/28 C07K1/36 C07K14/47 C07K17/02 C12M1/34 C12M3/00 C40B30/00 C40B30/04 C40B50/14 C40B50/18 G01N1/28 G01N27/447 G01N27/62 G01N30/02 G01N30/04 G01N30/26 G01N30/34 G01N30/46 G01N30/72 G01N30/74 G01N30/82 G01N30/86 G01N30/88 G01N31/00 G01N33/483 G01N33/53 G01N33/543 G01N33/68 G06F19/00 G06F19/26 (Advanced/Invention);
G01N30/02 G01N30/46 G01N30/52 G01N30/72 G01N30/82 G01N30/86 G01N30/88 G06F19/18 (Advanced/Non-invention);
C07K1/00 C40B30/00 C40B30/04 C40B50/14 G01N1/28 G01N27/447 G01N33/68 G06F19/00 (Core/Invention);
G01N30/00 (Core/Non-invention)

International (IPC 1-7): B01D15/08 B05D3/00 C07K1/00 C07K1/20 C07K14/47 C07K17/02 C12M1/34 G01N1/00 G01N27/26 G01N27/447 G01N27/62 G01N30/04 G01N30/26 G01N30/34 G01N30/48 G01N30/72 G01N30/74 G01N30/88 G01N31/00 G01N33/48 G01N33/483 G01N33/53 G01N33/543 G01N33/561 G01N33/68 G06F19/00 G06T15/00

CPC: C07K1/047 C07K1/1077 C07K14/4748 C07K17/02 G01N33/6818 G01N27/44773 B01J2219/00596 B01J2219/00605 B01J2219/00677 B01J2219/00702 B01J2219/00725 C40B50/14 G01N33/54386 Y10T436/24 Y10T436/25 Y10T436/255 G06F19/26 G01N27/44721 G01N27/44795 G06F19/18 G01N33/6842 G01N30/02 G01N30/461 G01N30/463 G01N30/7233 G01N30/82 G01N30/8651 G01N2030/027 G01N2030/524 G01N2030/8804 G01N2030/8813 G01N2030/8831 G01N33/6803 C07K1/28 C07K1/36

European: C07K1/04C C07K1/107D4 C07K1/28 C07K1/36 C07K14/47A34 C07K17/02 C40B50/14 G01N27/447B3A G01N27/447C4 G01N27/447C8 G01N30/46A4 G01N33/543K4 G01N33/68A G01N33/68A4 G01N33/68A8 G06F19/26 L01J219/00C10B4 L01J219/00C4H L01J219/00C4L2 L01J219/00C4L24 L01J219/00C6P M07K203/00 M07K205/02 S01N30/02 S01N30/02A4 S01N30/46 S01N30/46A S01N30/46B S01N30/52C S01N30/72L S01N30/82 S01N30/86C S01N30/88A S01N30/88C1 S01N30/88C1P S06F19/18

US: 204/459 204/459S 204/548 204/548S 204/61 204/610 204/610S 204/644 204/644S 210/656 345/419 345/419P 422/68.1 422/68.100S 422/7 422/70 422/70S 427/2.11 427/2.110S 435/287.2 435/287.200S 435/288.6 435/7.1 435/7.100P 435/7.100S 436/161 436/161S 436/171 436/171S 436/173 436/173S 436/174 436/174P 436/174S 436/178 436/178P 436/178S 436/516 436/516S 436/86 436/86P 506/18 506/18S 506/30 506/30S 506/32 506/32S 506/40 506/40S 506/7 506/7P 506/9 506/9P 530/417 702/19 702/27



Family:

Publication number	Publication date	Application number	Application date
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AU2004204502 AA	20040729	AU20040204502	20040113
AU2004204502 BB	20080529	AU20040204502	20040113
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CA2603259 AA	20071001	CA20062603259	20060330
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EP1393061 A4	20070214	EP20020766873	20020430
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EP1587840 B1	20080820	EP20040701793	20040113
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EP1869465 A4	20090603	EP20060749280	20060330
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MXPA02007665 A1	20040823	MX2002PA07665	20010207
MXPA02007771 A1	20030310	MX2002PA07771	20010207
US2002039747 AA	20020404	US20010778496	20010207
US2002098595 AA	20020725	US20010778548	20010207
US2003058239 AA	20030327	US20020133711	20020426
US2003064527 AA	20030403	US20020133896	20020426
US2004010126 AA	20040115	US20010968930	20011001
US2004214233 AA	20041028	US20040756068	20040113
US2005230315 AA	20051020	US20050094590	20050330
US2008096284 AA	20080424	US20070818083	20070612
US2008153711 AA	20080626	US20070820646	20070620
US2008280771 AA	20081113	US20070820377	20070619
US6931325 BB	20050816	US20020133711	20020426
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WO0159460 A2	20010816	WO2001US03887	20010207
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WO02088701 A1	20021107	WO2002US13603	20020430
WO04063719 A2	20040729	WO2004US00774	20040113
WO04063719 A3	20040916	WO2004US00774	20040113
WO06105519 A2	20061005	WO2006US12565	20060330
WO06105519 A3	20061221	WO2006US12565	20060330

Priority:

US20000180911P	20000208	US20000239325P	20001010	US20000239326P	20001010
US20010259448P	20010103	WO2001US03917	20010207	US20010778547	20010207
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US20010968930	20011001	US20070818083	20070612	US20070820646	20070620
US20070820377	20070619	WO2006US12565	20060330	US20010288170P	20010502
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WO2004US00774	20040113	US20040756068	20040113	US20030439625P	20030113
US20050094590	20050330				

Probable Assignee: MICHIGAN THE UNIV OF

Assignee(s): (std): ETHIER STEPHEN P ; HANASH SAMIR M ; HINDERER ROBERT ; KACHMAN MAUREEN ; LUBMAN DAVID M ; KACHMAN MAUREEN T ; MISEK DAVID ; NORTH ROBERT ; HORVATH THOMAS ; LAXMAN BHARATHI ; LUBMAN DAVID ; PAL MANOJ ; PARUS STEPHEN ; UNIV MICHIGAN ; WALL DANIEL B ; PARUS STEPHEN J ; YAN FANG ; SREEKUMAR ARUN ; BARDER TIMOTHY ; BARDER TIMOTHY J ; CHINNAIYAN ARUL M ; CHONG BATHSHEBA E ; EICHROM TECHNOLOGIES INC

Assignee(s): EPROGEN INC ; THE UNIV OF MICHIGAN ; REGENT OF UNIV ; REGENTS OF THE UNIVERSITY OF MICHIGAN ; THE REGENTS OF THE UNIVERSITY OF MICHIGAN ; THE UNIV MICHIGAN ; THE UNIV ; UNIV ; PROMIGEN LIFE SCIENCES LLC ; US GOVERNMENT SECRETARY FOR ARMY ; REGENT OF UNIV OF MICHIGAN ; UNIV OF MICHIGAN ; MICHIGAN THE UNIV ; NATIONAL SCIENCE FOUNDATION ; NATIONAL INST ; NATIONAL INSTITUTES OF HEALTH ; MICHIGAN THE UNIV OF ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALT ; NATIONAL INSTITUTES OF HEALTH (NIH) US DEPT OF HEALTH AND HUMAN SERVICES (DHHS) US GOVERNMENT ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; OF MICHIGAN UNIV ; MICHIGAN UNIV ; MICHIGAN THE UNIVERSITY

Inventor(s): (std): ARUL M CHINNAIYAN ; ARUN SREEKUMAR ; BARDER TIIMOTHY ; BARDER TIMOTHY ; BARDER TIMOTHY J ; BHARATHI LAXMAN ; CHINNAIYAN ARUL ; CHINNAIYAN ARUL M ; FANG YAN ; HANASH SAMIR M ; HINDERER ROBERT ; HORVATH THOMAS ; KACHMAN MAUREEN ; KACHMAN MAUREEN T ; LAXMAN BHARATHI ; LUBMAN DAVID ; LUBMAN DAVID M ; MISEK DAVID ; MISEK DAVID E ; NORTH ROBERT ; NORTH ROBERT C ; PAL MANOJ ; PARUS STEPHEN ; PARUS STEPHEN J ; CHONG BATHSHEBA E ; DAVID M LUBMAN ; SREEKUMAR ARUN ; ETHIER STEPHEN P ; WALL DANIEL B ; YAN FANG

Inventor(s): STEPHEN J PARUS ; THOMAS HORVATH ; TIMOTHY J BARDER ; WALL DANIEL ; DAVID MISEK ; ETHIER STEPHEN ; DANIEL B WALL ; ROBERT HINDERER ; ROBERT NORTH ; SAMIR M HANASH ; MAUREEN T KACHMAN ; CHONG BATHSHEBA ; BATHSHEBA E CHONG

Agent(s): PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; SPRUSON AND FERGUSON; SMART AND BIGGAR; SIM AND MCBURNEY; GLAWE DELFS MOLL; SHIMIZU HATSUSHI; HASHIMOTO KAZUNORI; MEDLEN AND CARROLL LLP, SUITE 350; MEDLEN AND CARROLL LLP SUITE 350; CASIMIR JONES SC; MEDLEN AND CARROLL LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

24) Family number: 15406809 (GB2364503A)

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Title: Compositions comprising a polyvalent cation source and a partially digestible lipid and/or a non-digestible lipid

Abstract: Source: GB2364503A Compositions comprising a polyvalent cation source and a partially digestible lipid and/or a non-digestible lipid wherein a single serving, a 100 calorie reference serving or a 30 g reference serving of the composition comprises sufficient cation source to provide at least 50 mg of the polyvalent cation. The polyvalent cation may be a calcium cation and the source of the polyvalent cation may be calcium carbonate or calcium citrate malate. The non-digestible lipid may be a polyol fatty **acid** polyester such as olestra. The compositions may be in the form of foodstuffs such as cookies, crackers, potato crisps, peanut butter, cheese spreads or dairy beverages. Compositions comprising a polyvalent cation or a source of a polyvalent cation and a non-digestible fat or a source of a non-digestible fat may be used to reduce blood cholesterol, treat heart disease such as hypercholesterolaemia or hypertension or treat complications associated with diabetes.

Classifications:

International (IPC 8-9): A21D13/00 A21D13/08 A21D2/02 A21D2/16 A23C20/00 A23C9/156 A23D9/007 A23L1/164 A23L1/217 A23L1/304 A23L1/308 A23L1/38 A61K31/23 A61K33/06 A61K33/10 A61P9/00 (Advanced/Invention)

International (IPC 1-7): A23L1/304 A23L1/308 A61K31/7024 A61K33/10 A61P9/00

CPC: A21D2/02 A21D2/16 A21D13/0041 A23C9/156 A23C20/00 A23D9/007 A23L1/1641 A23L1/2175 A23L1/3081 A23L1/3088 A23L1/38 A61K31/23 A61K33/06 A61K33/10 A23L1/304

European: A21D13/00D12 A21D13/08 A21D13/08D A21D2/02 A21D2/16 A23C20/00 A23C9/156 A23D9/007 A23L1/164B A23L1/217B A23L1/304 A23L1/308A A23L1/308P A23L1/38 A61K31/23 A61K33/06 A61K33/10

Family:

Publication number	Publication date	Application number	Application date
GB200111039 A0	20010627	GB20010011039	20010504
GB2364503 A1	20020130	GB20010011039	20010504

Priority:

US20000202242P 20000505

Probable Assignee: PROCTER AND GAMBLE

Assignee(s): (std)**:** PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE THE COMPANY ; THE PROCTER AND GAMBLE COMPANY

Inventor(s): (std)**:** JANDACEK RONALD JAMES ; PROSISE ROBERT LAWRENCE ; TROUT JAMES EARL

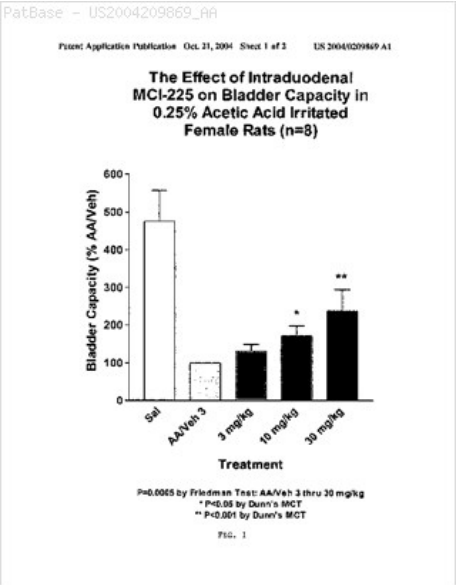
Inventor(s): JAMES EARL TROUT ; ROBERT LAWRENCE PROSISE ; RONALD JAMES JANDACEK

25) Family number: 31147260 (US2004209869A)

Title: METHOD OF TREATING LOWER URINARY TRACT DISORDERS

Abstract: Source: US2004209869A The invention relates to a method of treating at least one symptom of a lower urinary tract disorder in a subject in need of treatment wherein the symptom is selected from the group consisting of urinary frequency, urinary urgency, urinary urge incontinence, nocturia and enuresis. The method comprises administering to a subject in need of treatment a therapeutically effective amount of a compound that has 5-HT3 receptor antagonist activity and NorAdrenaline Reuptake Inhibitor (NARI) activity. The invention further relates to a method of treating at least one symptom of a lower urinary tract disorder in a subject in need of treatment wherein the symptom is selected from the group consisting of urinary frequency, urinary urgency, urinary urge incontinence, nocturia and enuresis, comprising coadministering to said subject a first amount of a 5-HT3 antagonist and a second amount of a NARI, wherein the first and second amounts together comprise a therapeutically effective amount or are each present in a therapeutically effective amount.

Classifications:
International (IPC 8-9): A01N43/54 A61K31/00 A61K31/13 A61K31/135 A61K31/496 A61K31/519 A61K31/53 A61K31/535 A61K31/551 A61K31/5513 A61K45/06 A61P13/02 A61P13/08 A61P13/10 A61P29/00 A61P43/00 C07D495/04 (Advanced/Invention); A61K31/13 A61K31/53 (Core/Invention)
International (IPC 1-7): A01N43/54 A61K31/135 A61K31/519 A61K31/535 A61K31/551
CPC: A61K45/06 A61K31/519 A61K31/00 A61K31/551 A61K31/5513
European: A61K31/00 A61K31/135 A61K31/519 A61K31/535 A61K31/551 A61K31/5513 A61K45/06
US: 514/218 514/249 514/252.16 514/252.160S 514/260.1 514/260.100S



Family:

Publication number	Publication date	Application number	Application date
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AU2004227945 AA	20041021	AU20040227945	20040402
AU2004227945 BB	20061026	AU20040227945	20040402
AU2007200317 AA	20070215	AU20070200317	20070125
CA2519379 AA	20050916	CA20042519379	20040402
DE602004007225 D1	20070809	DE200460007225T	20040402
DE602004007225 T2	20080306	DE200460007225T	20040402
EP1539181 A2	20050615	EP20040758741	20040402
EP1539181 A4	20051228	EP20040758741	20040402
EP1539181 B1	20070627	EP20040758741	20040402
EP1795196 A2	20070613	EP20070005612	20040402
EP1795196 A3	20080206	EP20070005612	20040402
ES2290741 T3	20080216	ES20040758741T	20040402
JP2006522144 T2	20060928	JP20060509595T	20040402
US2004209869 AA	20041021	US20040817332	20040402
US2005020577 AA	20050127	US20040863771	20040607
US2005026909 AA	20050203	US20040863770	20040607
US2005272719 AA	20051208	US20050122940	20050504
US2005282799 AA	20051222	US20050124580	20050506
US6846823 BB	20050125	US20040817332	20040402
US7115606 BB	20061003	US20040863770	20040607
WO04089288 A2	20041021	WO2004US10088	20040402
WO04089288 A3	20050421	WO2004US10088	20040402

Priority:

US20030461022P	20030404	US20030496502P	20030820	AU20040227945	20040402
AU20040227945	20040402	US20040817332	20040402	US20040536341P	20040113
US20050122940	20050504	US20050124580	20050506	AU20070200317	20070125
AU20070200317	20070125	US20040863770	20040607	US20040863771	20040607
WO2004US10088	20040402	EP20040758741	20040402		

Probable Assignee: EDUSA PHARMACEUTICALS INC

Assignee(s): (std): DYNOGEN INC ; DYNOGEN PHARMACEUTICALS INC ; FRASER MATTHEW O ; LANDAU STEVEN B ; MILLER CHERYL L

Assignee(s): ARACHNOVA THERAPEUTICS LTD ; EDUSA PHARMACEUTICALS INC

Inventor(s): (std): FRASER MATHEW O ; FRASER MATTHEW ; FRASER MATTHEW O ; LANDAU STEVEN ; LANDAU STEVEN B ; MILLER CHERYL ; MILLER CHERYL L

Inventor(s): STEVEN B LANDAU ; CHERYL L MILLER ; MATTHEW O FRASER

Agent(s): DAVIES COLLISON CAVE; BORDEN LADNER GERVAIS LLP; SNODIN MICHAEL D ET AL; JONES DAY; HAMILTON BROOK SMITH AND REYNOLDS PC

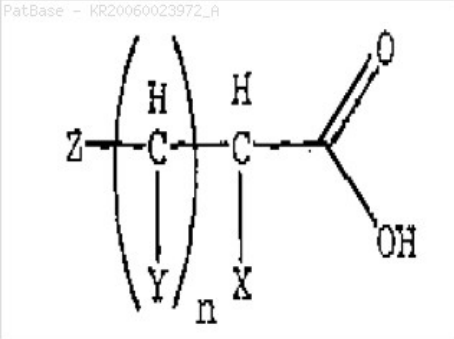
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

26) Family number: 31371879 (US2004241099A)

Title: FOAMABLE PHARMACEUTICAL COMPOSITIONS AND METHODS FOR TREATING A DISORDER

Abstract: Source: US2004241099A Novel compositions of matter comprising a foamable delivery system are provided. Novel methods for treating a disease, disorder, or condition using the novel compositions are further provided. Novel methods for making and delivering a foamable pharmaceutical composition are also provided. While the novel compositions and foamable drug delivery system may be utilized for administration of a wide variety of drugs to epithelial tissues, to treat a wide variety of diseases, disorders, or conditions, the inventive compositions and foamable drug delivery systems are particularly useful for the dermatological administration of corticosteroids and antifungal agents.

Classifications:
International (IPC 8-9): A61K31/19 A61K31/415 A61K31/4418 A61K31/57 A61K31/573 A61K47/02 A61K47/08 A61K47/10 A61K47/12 A61K47/14 A61K47/30 A61K47/32 A61K47/34 A61K7/00 A61K7/48 A61K9/00 A61K9/12 A61M11/00 (Advanced/Invention);
A61K31/19 A61K31/415 A61K31/57 A61K9/12 A61P17/00 (Advanced/Non-invention); A61K31/185 A61K31/415 A61K31/57 A61K47/02 A61K47/08 A61K47/10 A61K47/12 A61K47/14 A61K47/30 A61K47/32 A61K47/34 A61K9/00 A61K9/12 A61M11/00 (Core/Invention);
A61K A61M (Subclass/Invention)
International (IPC 1-7): A61K A61K31/415 A61K31/57 A61K9/00 A61K9/12 A61L9/04 A61M11/00
CPC: A61K9/122 A61K47/02 A61K47/10 A61K47/12 Y10S514/861 Y10S514/863
European: A61K47/02 A61K47/10 A61K47/12 A61K9/12B
US: 424/401 424/45 424/47 424/47P 424/78.03 424/78.06 514/861 514/863



Family:

Publication number	Publication date	Application number	Application date
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AU2004242963 BB	20090528	AU20040242963	20040527
BRPI0410721 A	20060620	BR2004PI10721	20040527
CA2527499 AA	20051128	CA20042527499	20040527
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EP1633368 A2	20060315	EP20040753550	20040527
EP1633368 A4	20070314	EP20040753550	20040527
EP1633368 B1	20111116	EP20040753550	20040527
ES2377064 T3	20120322	ES20040753550T	20040527
IL172082 A0	20090211	IL20050172082	20051121
IN01366MN2005 A	20060519	IN2005MN01366	20051206
IN223219 B	20090206	IN2005MN01366	20051206
JP2007500235 T2	20070111	JP20060533458T	20040527
JP4871728 B2	20120208	JP20060533458T	20040527
KR101141220 B1	20120507	KR20057022487	20040527
KR20060023972 A	20060315	KR20057022487	20040527
MXPA05012842 A1	20060517	MX2005PA12842	20040527
US2004241099 AA	20041202	US20030445487	20030528
US2007059253 AA	20070315	US20060595864	20061113
US7186416 BB	20070306	US20030445487	20030528
US7829107 BB	20101109	US20060595864	20061113
WO04105702 A2	20041209	WO2004US16733	20040527
WO04105702 A3	20050506	WO2004US16733	20040527
ZA200510388 A	20061227	ZA20050010388	20051221

Priority:
US20030445487 20030528 WO2004US16733 20040527 US20060595864 20061113

Probable Assignee: STIEFEL LABORATORIES

Assignee(s): (std): POPP KARL F ; STIEFEL LABORATORIES ; STIEFEL LABORATORIES INC ; YUHAS EDWARD R

Assignee(s): CONNETICS CORP ; DEUTSCHE BANK TRUST CO ; DEUTSCHE BANK TRUST CO AMERICAS COLLATERAL AGENT AS

Inventor(s): (std): EDWARD R YUHAS ; KARL F POPP ; POPP KARL ; POPP KARL F YUHAS EDWARD R ; YUHAS EDWARD ; YUHAS EDWARD R ; POPP KARL F

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; MBM INTELLECTUAL PROPERTY LAW LLP; REEVES JULIE FRANCES; GARY M NATH NATH AND ASSOCIATES PLLC; JOSHUA B; GARY M; NATH AND ASSOCIATES PLLC; NATH LAW GROUP; CHARLES D

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

27) Family number: 31485649 (US2005058689A) © PatBase

Title: ANTIFUNGAL PAINTS AND COATINGS

Abstract: Source: US2005058689A Antifungal and antibacterial peptides, polypeptides and proteins as antifungal additives for paint and other coatings are disclosed, along with antifungal compositions, and coated surfaces with antifungal properties. Methods of using the coatings for treating and/or inhibiting growth of mold, mildew and other fungi and bacteria on objects such as building materials that are susceptible to such infestation are also disclosed.

Classifications:

International (IPC 8-9): A01N25/00 A01N33/08 A01N37/18 A01N37/44 A01N37/46 A01N63/00 A01N63/02 A01P1/00 A01P3/00 A61F13/00 A61K31/74 A61K38/00 A61K38/08 A61K38/10 A61K47/48 B05D3/00 B05D5/00 B08B3/00 B32B3/12 B32B5/02 B65D81/00 B65D85/84 C07K14/00 C07K14/435 C07K17/00 C07K2/00 C07K5/08 C07K5/10 C07K7/00 C07K7/06 C07K7/08 C08G63/91 C08L89/00 C09D133/00 C09D189/00 C09D201/00 C09D5/14 C09D5/16 C09D7/00 C09D7/12 C09J11/08 C12N11/16 C12N9/00 C12N9/16 C12N9/18 C12N9/20 C12N9/48 C12N9/76 C12N9/78 C12Q1/00 C12Q1/34 C12Q1/527 C12S9/00 (Advanced/Invention);
A01N33/00 A01N37/18 A01N37/44 A01N63/00 A01P1/00 A01P3/00 A61F13/00 A61K47/48 B05D3/00 C07K14/00 C07K5/00 C07K7/00 C08G63/00 C08L89/00 C09D201/00 C09D5/14 C09D5/16 C09D7/12 C09J11/00 C12N11/00 C12N9/00 C12N9/16 C12N9/48 C12N9/76 C12N9/78 (Core/Invention);
A01N C09D (Subclass/Invention)

International (IPC 1-7): A61K38/00 C08L89/00 C09D201/00 C09D5/14 C09D5/16

CPC: A01N37/46 C07K14/4723 A01N63/00 B08B17/02 C07K7/06 C07K7/08 C09D5/1693 C09D189/00 A01N63/02 C12Q1/34 C12Q1/44 C12Q1/61 C09D5/1637 C08L89/00 C09D5/14 C09D7/125 Y10T428/24149 Y10T442/2279 C09D5/1625 C09D7/1233 C09D5/1668 C09D5/008 C09D7/1291 D06M16/003

European: A01N37/46 A01N63/00 A01N63/02 B08B17/02 C07K7/06 C07K7/08 C09D5/00F C09D5/14 C09D5/16C3K C09D5/16C7 C09D5/16R C09D7/12D4 C09D7/12M C09D7/12S C12Q1/34 C12Q1/44 C12Q1/61 D06M16/00B M08L89/00

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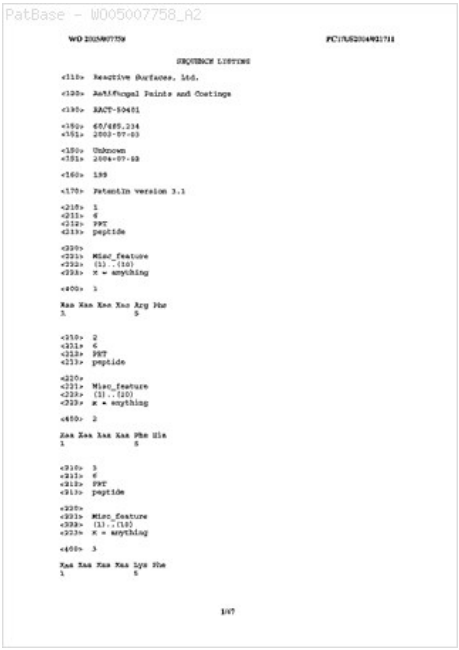
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1/47

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Priority:

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Probable Assignee: MCDANIEL C STEVEN

Assignee(s): (std)**:** MCDANIEL C ; MCDANIEL C STEVEN ; REACTIVE SURFACES LTD ; MCDANIEL STEVEN C ; REACTIVE SURFACES LTD LLP ; STEVEN MCDANIEL C ; REACTIVE SURFACE LTD ; RAWLINS JAMES W ; WALES MELINDA ; WILLIAMS ERIC B

Assignee(s): C MCDANIEL ; C STEVEN MCDANIEL

Inventor(s): (std)**:** MCDANIEL C S ; MCDANIEL C STEVEN ; MCDANIEL STEVEN C ; RAWLINS JAMES ; RAWLINS JAMES W ; WALES MELINDA ; WALES MELINDA E ; WILLIAMS ERIC ; WILLIAMS ERIC B ; BRAASCH DWAINE ; CARVAJAL JUAN CARLO ; CIPI PIRRO

Inventor(s): MCDANIEL C ; C STEVEN MCDANIEL

Agent(s): WRAYS; MARCHANT MICHAEL JOHN; SANFORD TCOLB AND CO; C STEVEN MCDANIEL MCDANIEL AND ASSOCIATES PC; DAFFER MCDANIEL LLP; C STEVEN MCDANIEL C O DAFFER MCDANIEL LLP; RISSMAN HENDRICKS AND OLIVERIO LLP; NOVAK DRUCE CONNOLLY BOVE AND QUIGG LLP; MCDANIEL AND ASSOCIATES PC; MCDANIEL C STEVEN

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

28) Family number: 32311047 (US2006235031A) © PatBase

Title: 6,6-BICYCLIC RING SUBSTITUTED HETEROBICYCLIC PROTEIN KINASE INHIBITORS

Abstract: Source: US2006235031A Compounds of the formula

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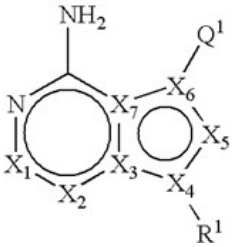

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- and pharmaceutically acceptable salts thereof, wherein X_1, X_2, X_3, X_4, X_5, X_6, X_7, R^1, and Q^1 are defined herein, inhibit the IGF-1R enzyme and are useful for the treatment and/or prevention of hyperproliferative diseases such as cancer, inflammation, psoriasis, allergy/asthma, disease and conditions of the immune system, disease and conditions of the central nervous system.

Classifications:

International (IPC 8-9): A01N43/58 A01N43/60 A01N43/64 A01N43/90 A61K31/437 A61K31/4375 A61K31/495 A61K31/4965 A61K31/4985 A61K31/50 A61K31/5025 A61K31/517 A61K31/519 A61K31/52 A61K31/53 A61K31/5377 A61K31/541 A61K31/551 A61P1/04 A61P1/16 A61P11/00 A61P11/06 A61P13/12 A61P15/00 A61P15/08 A61P17/02 A61P17/06 A61P19/02 A61P25/00 A61P27/02 A61P27/06 A61P27/10 A61P29/00 A61P3/10 A61P31/04 A61P31/12 A61P31/18 A61P31/22 A61P33/02 A61P35/00 A61P35/02 A61P35/04 A61P37/02 A61P37/04 A61P37/06 A61P37/08 A61P43/00 A61P5/14 A61P7/02 A61P7/06 A61P9/00 A61P9/08 A61P9/10 C07D401/04 C07D471/00 C07D471/04 C07D487/00 C07D487/04 C07D491/00 C07D495/00 C07D497/00 C07F5/02 (Advanced/Invention);
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Assignee(s): (std)**:** ARNOLD LEE D ; CESARIO CARA ; COATE HEATHER ; CREW ANDREW P ; CREW ANDREW PHILIP ; DONG HANQING ; OSI PHARM INC ; FOREMAN KENNETH ; HONDA AYAKO ; LAUFER RADOSLAW ; LI AN HU ; MULVIHILL KRISTEN MICHELLE ; MULVIHILL MARK JOSEPH ; NIGRO ANTHONY ; MULVIHILL KRISTEN M ; MULVIHILL MARK J ; OSI FARMAS JUTIKALZ INK ; NIGRO ANTHONY I ; PANICKER BIJOY ; STEINIG ARNO G ; SUN YINGCHUAN ; WENG QINGHUA ; WERNER DOUGLAS S ; WYLE MICHAEL J ; ZHANG TAO ; WENG QINGUA ; OSI PHARMACEUTICALS ; OSI PHARMACEUTICALS LLC ; STEINIG AMO G ; WENG QUINGHUA

Assignee(s): OSI PHARMACEUTICALS INC

Inventor(s): (std)**:** AN HU LI ; ARNOLD LEE DANIEL ; AYAKO HONDA ; BIJOY PANICKER ; CARA CESARIO ; CESARIO CARA ; COATE HEATHER ; CREW ANDREW P ; CREW ANDREW PHILIP ; CREW ANDREW PHILLIP ; DONG HAN QING ; DONG HANGING ; DONG HANQING ; ARNOLD LEE D ; ARNOLD LEE D COATE HEATHER CRE ; FOREMAN KENNETH ; HANQING DONG ; HEATHER COATE ; HONDA AYAKO ; INNOCENZO NIGRO ANTHONY ; JOSEPH MULVIHILL MARK ; KENNETH FOREMAN ; MICHAEL WYLE ; MICHELLE MULVIHILL KRISTEN ; MULVIHILL KRISTEN ; MULVIHILL KRISTEN M ; MULVIHILL KRISTEN MICHELE ; MULVIHILL KRISTEN MICHELLE ; MULVIHILL MARK ; MULVIHILL MARK J ; MULVIHILL MARK JOSEPH ; NIGRO ANTHONY ; NIGRO ANTHONY I ; NIGRO ANTHONY INNOCENZO ; PANICKER BIJOY ; PHILIP CREW ANDREW ; QINGHUA WENG ; LAUFER RADOSAW ; LAUFER RADOSLAW ; LI AN HU ; LI AN KHU ; MALVIKHILL MARK DZHOZEF ; STEINIG AMO G ; STEINIG ARNO ; STEINIG ARNO G ; WENG QING HUA ; WENG QINGHUA ; WENG QINGUA ; WENG QUINGHUA ; WERNER DOUGLAS ; WERNER DOUGLAS S ; SUN YING CHUAN ; SUN YINGCHUAAN ; SUN YINGCHUAN ; TAO ZHANG ; WYLE MICHAEL ; WYLE MICHAEL J ; YINGCHUAN HANG TAO CESARIO CAR ; YINGCHUAN SUN ; ZHANG TAO ; ARNOLD LEE ; VERNER DUGLAS S ; VEHN TSINKHUA ; UAJL MAJKL DZH ; SUN INCHUAN ; SHTAJNIG ARNO G ; PANIKER BIDZHOJ ; NAJGRO EHNTONI ; MALVIKHILL KRISTEN MISHEL ; LAUFER RADOSLAV ; KRJU EHNDRJU FILIP ; KOUT KHITER ; KHONDA AJAKO ; FORMAN KENNET ; DUN KHAN TSIN ; CHZHAN TAO ; ARNOL D LI D ; RADOSLOW LAUFER ; SESARIO KARA ; CREW ANDREW

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

29) Family number: 32400411 (US2005256045A)

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Title: APPARATUS AND METHOD FOR TRANSDERMAL DELIVERY OF PARATHYROID HORMONE AGENTS

Abstract: Source: US2005256045A An apparatus and method for transdermally delivering a biologically active agent comprising a delivery system having a microprojection member (or system) that includes a plurality of microprojections (or array thereof) that are adapted to pierce through the stratum corneum into the underlying epidermis layer, or epidermis and dermis layers. In one embodiment, the PTH-based agent is contained in a biocompatible coating that is applied to the microprojection member.

Classifications:
International (IPC 8-9): A61B17/20 A61K38/16 A61K38/22 A61K38/29 A61K47/02 A61K47/10 A61K47/12 A61K47/14 A61K47/18 A61K47/20 A61K47/22 A61K47/26 A61K47/32 A61K47/34 A61K47/36 A61K47/38 A61K47/40 A61K47/42 A61K9/00 A61K9/02 A61M31/00 A61M37/00 A61M5/00 A61M5/30 A61P5/18 C07K14/635 C07K2/00 (Advanced/Invention);
A61K47/12 A61K47/18 A61K47/26 A61M37/00 (Advanced/Non-invention);
A61K38/00 A61M31/00 A61M37/00 (Core/Invention);
A61B A61K A61M (Subclass/Invention)
International (IPC 1-7): A61B17/20 A61J1/00 A61K31/00 A61K38/29 A61K9/00 A61K9/70 A61M31/00 A61M35/00 A61M37/00 A61P19/10
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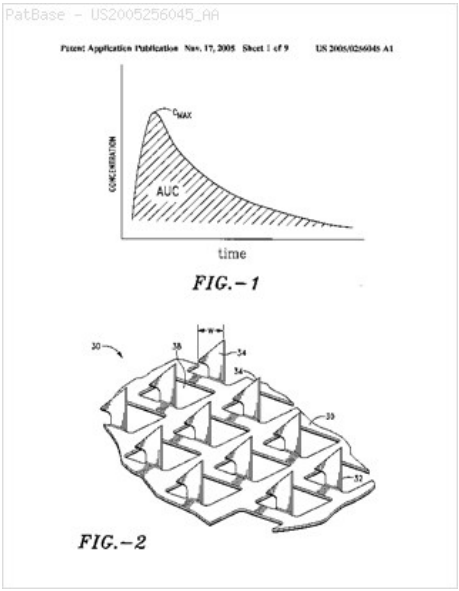
US: 424/422 424/422P 424/423 424/423P 424/449 514/1.1 514/1.100S 514/1.2 514/1.200S 514/11.8 514/11.800S 514/12 514/16.9 514/16.900S 514/2 514/21.3 530/300 604/123 604/46 604/46P 604/500 604/500S 604/506 604/506P



Family:

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ZA200610412 A	20080227	ZA20060010412	20061212

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Probable Assignee: ALZA CORP

Assignee(s): (std): ALZA CORP ; AMERI MAHMOUD ; CORMIER MICHEL J ; CORMIER MICHEL J N ; MAA YUH FUN ; KAMBERI MARIKA ; DADDONA PETER ; JOHNSON AND JOHNSON ; KAMBERL MARIKA ; DADDONA PETER E

Assignee(s): HERCULES TECHNOLOGY GROWTH CAPITAL INC ; CORMIER MICHEL JN

Inventor(s): (std): PETER DADDONA ; YUH FUN MAA ; KAMBERI MARIKA ; DADDONA PETER ; CORMIER MICHEL J ; AMERI MAHMOUD ; PETER AMERI MAHMOUD CORMIER MI ; DADDONA PETER E ; KAMBERL MARIKA ; MAA YUH FUN ; MAHMOUD AMERI ; MARIKA KAMBERI ; CORMIER MICHEL J N ; CORMIER MICHAEL J N

Inventor(s): AMERI MAHMOUD CORMIER MICHEL J ; CORMIER MICHAEL JN ; CORMIER MICHEL ; MICHEL J N CORMIER ; MICHEL JN CORMIER ; AMERI MAHMOUD CORMIER MICHEL J MAA YUH FUN KAMBERI ; CORMIER MICHEL JN

Agent(s): WRAYS; BORDEN LADNER GERVAIS LLP; SOAMES CANDIDA JANE; RALPH C FRANCIS FRANCIS LAW GROUP; EDWARDS ANGELL PALMER AND DODGE LLP; KATHLEEN; AMY; EDWARDS WILDMAN PALMER LLP; SUNSTEIN KANN MURPHY AND TIMBERS LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

30) Family number: 32753443 (US2006063755A)

Title: LOXAPINE ANALOGS AND METHODS OF USE THEREOF

Abstract: Source: US2006063755A The invention relates to novel compounds and methods of using them for modulating sleep.

Classifications:
International (IPC 8-9): A61K31/55 A61K31/553 A61K31/554 A61P25/00 A61P25/20 C07D C07D267/02 C07D267/16 C07D267/18 C07D267/20 C07D413/02 C07D413/04 (Advanced/Invention);
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A61K A61P C07D (Subclass/Invention)
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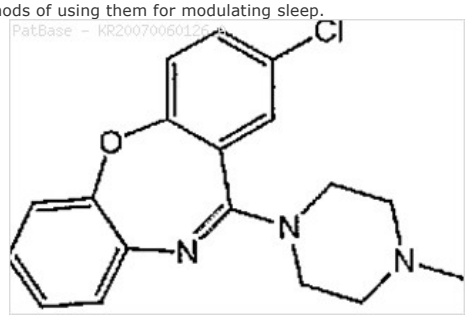

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Priority:

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WO2005US34015 20050921
US20050611849P 20050921

Probable Assignee: HYPNION INC

Assignee(s): (std)**:** EDGAR DALE M ; HANGAUER DAVID G ; HYPNION INC ; SHIOSAKI KAZUMI ; SOLOMON MICHAEL ; WHITE JAMES F

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

31) Family number: 33084792 (US2006135405A)

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Title: PROCESS FOR PRODUCING STERILE SUSPENSIONS OF SLIGHTLY SOLUBLE BASIC PEPTIDE COMPLEXES, STERILE SUSPENSIONS OF SLIGHTLY SOLUBLE BASIC PEPTIDE COMPLEXES, PHARMACEUTICAL FORMULATIONS CONTAINING THEM, AND THE USE THEREOF AS MEDICAMENTS

Abstract: Source: US2006135405A The present invention provides a novel process for producing sterile suspensions of slightly soluble basic peptide complexes. The present invention further provides a novel process for producing sterile lyophilizates of slightly soluble basic peptide complexes. In addition, a novel process for producing sterile suspensions suitable for the parenteral administration of slightly soluble basic peptide complexes is provided. The invention moreover provides sterile suspensions and sterile lyophilizates of slightly soluble basic peptide complexes, and pharmaceutical formulations comprising them. The provided sterile suspensions, sterile lyophilizates and pharmaceutical formulations comprising them are particularly suitable for use in a parenteral dosage form as medicaments for the treatment and prophylaxis of diseases and pathological states in mammals, especially in humans.

Classifications:
International (IPC 8-9): A61K38/09 A61K9/10 A01N37/18 A61K38/00 A61K38/02 A61K38/08 A61K38/16 A61K47/10 A61K47/12 A61K9/08 A61K9/19 A61L2/18 A61P13/08 A61P15/00 A61P15/08 A61P15/10 A61P15/16 A61P15/18 A61P25/00 A61P25/28 A61P31/18 A61P35/00 A61P37/04 A61P43/00 A61P5/24 (Advanced/Invention);
A61K38/09 A61K9/08 A61K9/19 (Advanced/Non-invention);
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European: A61K31/19 A61K38/09 A61K47/26 A61K9/00M5 A61K9/10 A61K9/19 K61K38/00
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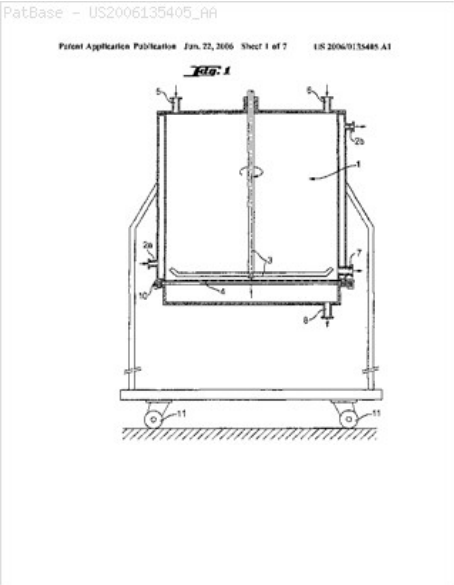

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Priority:

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Probable Assignee: ZENTARIS GMBH

Assignee(s): (std): AETERNA ZENTARIS GMBH ; ATERNA ZENTARIS GMBH ; FTERNA ZENTARIS GMBH ; ZENTARIS GMBH ; ZENTARIS AG

Assignee(s): WERNER KARL ; ZENTARIS GMBHDE ; ZENTRARIS GMBH ; MUELLER HORST ; RISCHER MATTHIAS ; ENGEL JUERGEN

Inventor(s): (std): ENGEL JUERGEN ; ENGEL JUERGEN PROF ; ENGEL JURGEN ; HORST MUELLER ; JUERGEN ENGEL ; KARL WERNER ; MATTHIAS RISCHER ; MUELLER HORST ; MULLER HORST ; RICHER MATTHIAS ; RISCHER MATHIAS ; RISCHER MATTHIAS ; RISCHER MATTHIAS DR ; WERNER KARL ; WERNER KARL DR

Inventor(s): MATHIAS RISCHER ; JURGEN ENGEL ; HORST MULLER

Agent(s): SPRUSON AND FERGUSON; MARKS AND CLERK; HOON CHANG; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT PC; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP

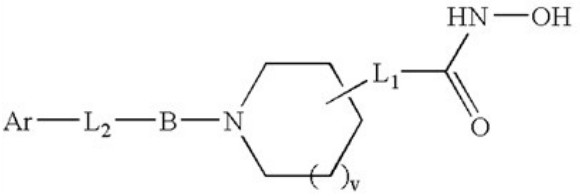
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

32) Family number: 33365340 (US2008207694A)

Title: HYDROXAMATES AS HISTONE DEACETYLASE INHIBITORS AND PHARMACEUTICAL FORMULATIONS CONTAINING THEM

Abstract: Source: US2008207694A Compounds of structure (I) having histone deacetylase (HDAC) inhibitor activity are described. The compounds are chemically characterised by the presence of hydroxamic **acid**, with zinc as chelator, and an aromatic nucleus connected by a linker in which either a bicyclic aromatic system or a piperidino ring are present.

(I)



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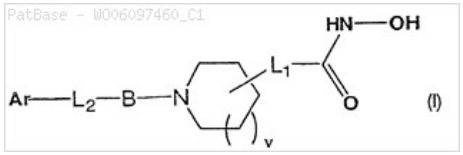

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US: 514/331 546/233 546/233S

Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: MENARINI INTERNAT OPERATIONS LUXEMBOURG SA

Assignee(s): (std): ANDREA PIERO D ; D ANDREA PIERO ; FATTORI DANIELA ; MARASTONI ELENA ; MENARINI INT OPERATIONS L ; MENARINI INT OPERATIONS LU SA ; ROSSI CRISTINA ; PORCELLONI MARINA ; MENARINI INTERNAT OPERATION LU ; MENARINI INTERNAT OPERATIONS LUXEMBOURG SA

Assignee(s): MENARINI INTERNATIONAL OPERATIONS L UXEMBOURG S A ; MENARINI INTERNAT OPERATIONS L ; MENARINI INTERNATIONAL OPERATIONS LUXEMBURGO S A ; MENARINI INTERNATIONAL OPERATIONS LUXEMBOURG S A ; MENARINI INTERNATIONAL OPERATIONS LUXEMBOURG SA ; MENARINI INTERNATIONAL OPERATION LUXEMBOURG S A ; MENARINI INT OPERATIONS LUXEMBOURG SA

Inventor(s): (std): ANDREA PIERO D ; CRISTINA ROSSI ; D ANDREA PIERO ; DANDREA PIERO ; DANIELA FATTORI ; ELENA MARASTONI ; FATTORI DANIELA ; MARASTONI ELENA ; MARINA PORCELLONI ; PIERO D ANDREA ; PORCELLONI MARINA ; ROSSI CHRISTINA ; ROSSI CRISTINA

Agent(s): FISHER ADAMS KELLY; FISHER ADAMS KELLY PTY LTD; FISHER ADAMS KELLY CALLINANS; BERESKIN AND PARR; JAY S CINAMON ABELMAN FRAYNE AND SCHWAB; CONG TY TNHH BAN CA

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

33) Family number: 33515338 (US2007029252A)

Title: SYSTEM AND PROCESS FOR BIOMASS TREATMENT

Abstract: Source: US2007029252A A system including an apparatus is presented for treatment of biomass that allows successful biomass treatment at a high solids dry weight of biomass in the biomass mixture. The design of the system provides extensive distribution of a reactant by spreading the reactant over the biomass as the reactant is introduced through an injection lance, while the biomass is rotated using baffles. The apparatus system to provide extensive assimilation of the reactant into biomass using baffles to lift and drop the biomass, as well as attrition media which fall onto the biomass, to enhance the treatment process.

Classifications:
International (IPC 8-9): B09B3/00 C02F11/00 C02F11/02 C02F3/00 C07H3/02 C10L1/00 C12M1/02 C12M1/40 C12P1/00 C12P19/00 C12P19/02 C12P19/14 C12P7/00 C12P7/06 C12P7/08 C12P7/18 C12P7/56 C13K1/02 (Advanced/Invention); C07H3/02 C12N15/09 C12P19/14 (Advanced/Non-invention); B09B3/00 C02F11/00 C02F11/02 C02F3/00 C07H3/00 C10L1/00 C12M1/02 C12M1/40 C12P1/00 C12P19/00 C12P7/00 C12P7/02 C12P7/40 C13K1/00 (Core/Invention); C07H3/00 C12N15/09 C12P19/00 (Core/Non-invention)
International (IPC 1-7): C12M1/40 C12P1/00 C12P19/02 C12P7/08
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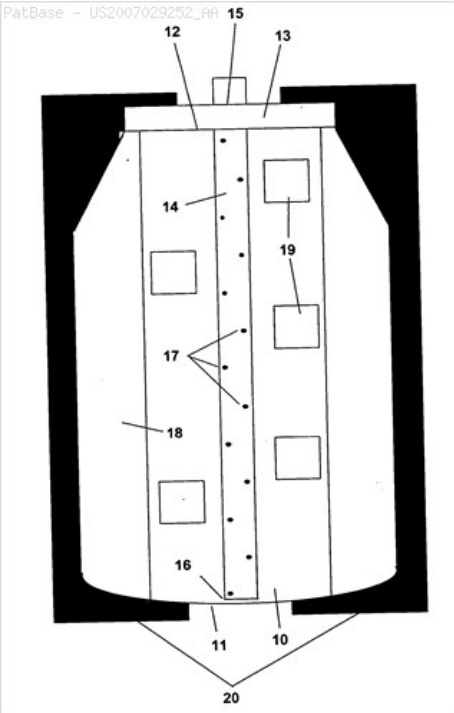

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Priority:

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Probable Assignee: DU PONT

Assignee(s): (std)**:** ALLIANCE SUSTAINABLE ENERGY ; DU PONT ; DUNSON JAMES B ; DUNSON JAMES B JR ; DUNSON JR JAMES B ; ELANDER RICHARD ; LYONS ROBERT C ; HENNESSEY SUSAN ; FRIEND JULIE ; HAMES BONNIE ; HENNESSEY SUSAN M ; ELANDER RICHARD T ; MIDWEST RESEARCH INST ; EIDU PONT DE NEMOURS AND CO ; TUCKER III MELVIN P ; TUCKER MELVIN ; TUCKER MELVIN P ; TUCKER MELVIN P III

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Inventor(s): (std)**:** BONNIE HAMES ; DUNSON JAMES B JR ; DUNSON JR JAMES B ; ELANDER RICHARD T ; HENNESSEY SUSAN MARIE ; JULIE FRIEND ; TUCKER MELYUIN P ; TUCKER MELVIN ; LYONS ROBERT C ; ELANDER RICHARD ; DUNSON JAMES B ; HENNESSEY SUSAN M ; HENNESSEY SUSAN ; HAMES BONNIE ; FRIEND JULIE ; TUCKER III MELVIN P ; TUCKER MELVIN P ; TUCKER MELVIN P III

Inventor(s): TUCKER MELVIN PIII ; TUCKER MELVINUS ; LYONS ROBERT ; MELVIN TUCKER ; RICHARD ELANDER ; ROBERT C LYONS ; SUSAN HENNESSEY ; SUSAN M HENNESSEY ; SUSAN MHENNESSEY ; HENNESSEY SUSANUS ; JAMES B DUNSON ; ELANDER RICHARDUS ; DUNSON JAMES BJR ; DUNSON JAMES BUS ; DUNSON JAMES

Agent(s): TORYS LLP; MATTHEWS DEREK PETER; E I DU PONT DE NEMOURS AND COMPANY, LEGAL PATENT RECORDS CENTER; E I DU PONT DE NEMOURS AND CO LEGAL PATENT RECORDS CENTER; E I DU PONT DE NEMOURS AND COMPANY,LEGAL PATENT RECORDS CENTER

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

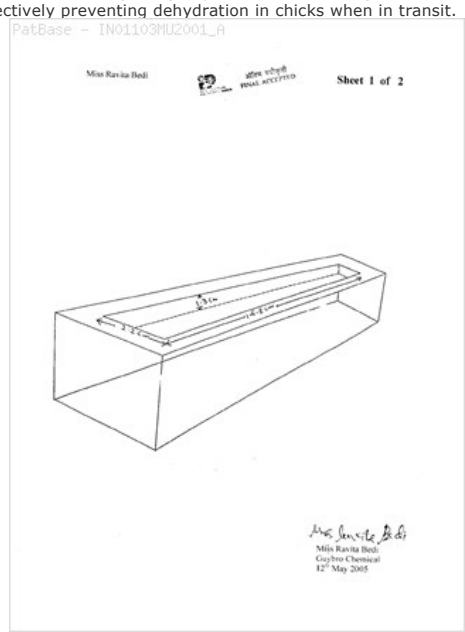
34) Family number: 42168808 (IN01103MU2001A)

Title: EDIBLE WATER FOR PREVENTING DEHYDRATION IN CHICKS NAMED AS SPRING

Abstract: Source: IN01103MU2001A A poultry feed supplement for preventing dehydration in chicks is provided by homogeneously mixing together, electrolytes dextrose, organic **acids** gelling material; purified water utilizing a polypropylene drum and an electric stirrer made up of SS metal, with motor at 0.5horse power. The electrolytes used in the above supplement are sodium chloride (50-70 mg), magnesium chloride (25-30 mg), calcium chloride (27-33 mg) sodium acetate (50-70 mg), potassium acetate (10-15 mg) and sodium citrate (50-80 mg). The feed supplement also comprises dextrose in the range of 50-80 mg and direct organic **acid** which are among the group of formic **acid**, organic **acid**, prop ionic **acid** and Sorbic **acid** is used to improve the strength of poultry chicks by effectively preventing dehydration in chicks when in transit.

Classifications:

International (IPC 1-7): A23L1/30



Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: RAVITA BEDI

Assignee(s): MS RAVITA BEDI ; RAVITA BEDI

Inventor(s): MS RAVITA BEDI ; RAVITA BEDI

35) Family number: 33587945 (US2007004752A)

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Title: BENZISOXAZOLE PIPERAZINE COMPOUNDS AND METHODS OF USE THEREOF

Abstract: Source: US2007004752A The invention includes benzisoxazole piperazine compositions and methods of using them for modulating sleep.

Classifications:
International (IPC 8-9): A61K31/423 A61K31/445 A61K31/454 A61K31/496 A61K31/497 A61K31/5355 A61K31/5377 A61P25/20 A61P43/00 C07D261/20 C07D401/04 C07D413/00 C07D413/02 C07D413/04 C07D413/14 C07D417/00 C07D419/00 (Advanced/Invention);
A61K31/00 A61K31/423 A61K31/445 A61K31/4523 A61K31/496 A61K31/5375 A61P25/00 C07D261/00 C07D401/00 C07D413/00 (Core/Invention);
A61K C07D (Subclass/Invention)
International (IPC 1-7): C07D261/20
CPC: C07D413/04 C07D261/20
European: C07D261/20 C07D413/04
US: 514/233.8 514/233.800P 514/254.02 514/254.04 514/254.040P 514/321 514/321S 544/129 544/129S 544/368 544/368S 546/198 546/198S 546/321

Family:

Publication number	Publication date	Application number	Application date
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Priority:

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EP20060751667 20060426
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Probable Assignee: HYPNION INC

Assignee(s): (std): COUGHLIN DANIEL ; EDGAR DALE ; EDGAR DALE M ; HANGAUER DAVID ; SHIOSAKI KAZUMI ; HANGAUER DAVID G ; SOLOMON MICHAEL ; WHITE JAMES F ; HYPNION INC ; WHITE JAMES

Inventor(s): (std): WHITE JAMES ; WHITE JAMES F ; SOLOMON MICHAEL ; SHIOSAKI KAZUMI ; MICHAEL SOLOMON ; KAZUMI SHIOSAKI ; HANGAUER DAVID G ; EDGAR DALE M ; DANIEL COUGHLIN ; COUGHLIN DANIEL ; EDGAR DALE ; HANGAUER DAVID ; HANGAUER DAVID GARRY JR

Inventor(s): JAMES F WHITE ; DALE M EDGAR ; DAVID G HANGAUER ; DAVID GARRY HANGAUER JR

Agent(s): SPRUSON AND FERGUSON; GOWLING LAFLEUR HENDERSON LLP; SUAREZ MILES ANA SANCHIZ; MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO PC; ELI LILLY AND COMPANY; ELI LILLY AND CO; ELRIFI IVOR R; ERLACHER HEIDI A; R CRAIG

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

36) Family number: 42459960 (US2008274928A)

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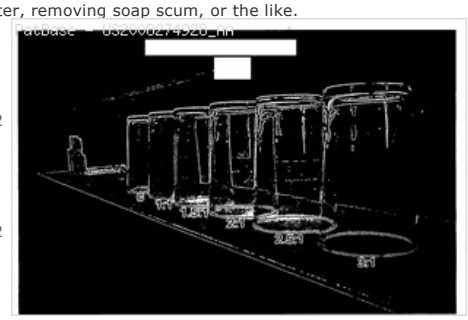
Title: WATER SOLUBLE MAGNESIUM COMPOUNDS AS CLEANING AGENTS AND METHODS OF USING THEM

Abstract: Source: US2008274928A The present invention relates to compositions and methods employing a water soluble magnesium compound. In certain embodiments, the composition includes water and water soluble magnesium compound, but lacks other materials commonly used in cleaning compositions. The methods and compositions can provide magnesium ion at predefined ratios to calcium ion in water, such as magnesium ion in a molar amount equal to or in excess over a molar amount of calcium ion. A water soluble magnesium salt including an anion of a water soluble calcium salt is more effective than a magnesium salt with an anion of a water insoluble calcium salt. These compositions can be used for reducing lime scale or precipitate formation from hard water, removing soap scum, or the like.



Classifications:
International (IPC 8-9): B01D27/02 B08B3/04 B08B3/08 B08B7/00 B08B7/04 B08B9/20 C02F1/52 C02F1/58 C02F5/00 C02F5/02 C09D5/08 C09K3/00 C10G45/00 C10G9/00 C10G9/16 C11D1/00 C11D1/83 C11D11/00 C11D17/00 C11D17/06 C11D17/08 C11D3/00 C11D3/02 C11D3/04 C11D3/08 C11D3/10 C11D3/12 C11D3/16 C11D3/20 C11D3/24 C11D3/37 C11D3/386 C11D3/395 C11D3/48 C11D3/60 C11D7/02 C11D7/10 C11D7/12 C23C20/00 C23C20/06 C23C22/00 C23F1/08 C23F11/06 C23G1/18 D06F39/00 D06L1/12 (Advanced/Invention);
C02F5/06 (Advanced/Non-invention);
B01D27/00 B08B3/04 B08B3/08 B08B7/00 B08B7/04 C02F1/52 C02F1/58 C02F5/00 C09D5/08 C09K3/00 C10G45/00 C10G9/00 C11D1/00 C11D1/83 C11D11/00 C11D17/00 C11D17/08 C11D3/00 C11D3/02 C11D3/04 C11D3/08 C11D3/10 C11D3/12 C11D3/16 C11D3/20 C11D3/24 C11D3/37 C11D3/38 C11D3/395 C11D3/48 C11D7/02 C23C20/00 C23C22/00 C23F1/08 C23G1/14 D06F39/00 (Core/Invention)
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European: C11D11/00B2D C11D3/04S C11D7/10
US: 106/14.05 106/14.050S 134/109 134/109S 134/18 134/18P 134/25.1 134/25.2 134/25.3 134/25.4 134/36 134/42 134/56.00DS 134/56D 134/7 134/7P 210/287 210/287S 210/723 210/723S 252/174 252/387 252/387S 252/388 252/388S 252/396 252/396S 422/13 422/18 426/321 426/323 510/108 510/108S 510/109 510/109S 510/161 510/180 510/181 510/181S 510/189 510/214 510/218 510/218S 510/219 510/219S 510/220 510/220S 510/221 510/224 510/225 510/227 510/232 510/233 510/234 510/235 510/235S 510/238 510/238S 510/255 510/258 510/283 510/287 510/293 510/298 510/336 510/337 510/337S 510/356 510/356S 510/393 510/393S 510/400 510/400S 510/401 510/401S 510/403 510/403S 510/404 510/404S 510/405 510/405S 510/420 510/420S 510/433 510/433S 510/435 510/445 510/445S 510/446 510/446S 510/451 510/475 510/477 510/477S 510/488 510/488S 510/508 510/508S 510/509 510/509S 510/511 510/511S 510/514 510/521 68/12.13 68/12.130S 8/137 99/483

Family:

Publication number	Publication date	Application number	Application date
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Assignee(s): ECOLAB IN

Inventor(s): (std): BESSE MICHAEL E ; BOLDUC JOHN W ; ERICKSON ANTHONY W ; FERNHOLZ PETER J ; LAWRENCE MICHAEL M ; LAWRENCE MICHEL ; LAWRENCE MICHEL M ; BARTELME MICHAEL ; BARTELME MICHAEL J ; MICHEL LAWRENCE ; MILLS KRISTEN A ; MONSRUD LEE J ; OLSON KEITH E ; RISCHMILLER MICHAEL ; SANDERS LISA M ; SCHACHT PAUL F ; SCHMIDT ERIC V ; SMITH KIM R ; TJELTA BRENDA L

Inventor(s): TJELTA BRENDA ; SMITH KIM ; SANDERS LISA ; OLSON KEITH ; MICHEL M LAWRENCE ; BESSE MICHAEL ; LEE J MONSRUD ; LISA M SANDERS ; MICHAEL E BESSE ; MICHAEL J BARTELME ; KEITH E OLSON ; KIM R SMITH ; KRISTEN A MILLS ; BRENDA L TJELTA ; BRENDA LTJELTA

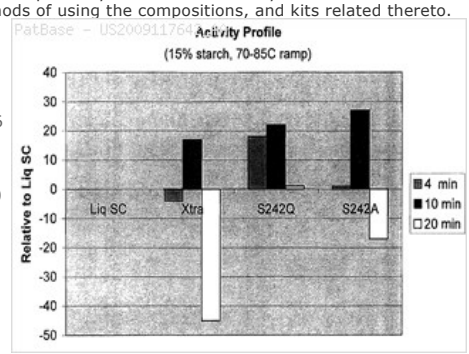
Agent(s): SPRUSON AND FERGUSON; CASSAN MACLEAN; POLYPATENT; AOKI ATSUSHI; KOGA TETSUJI; ISHIDA TAKASHI; ECOLAB INC; MERCHANT AND GOULD PC; ECOLAB USA INC; ANDREW D; LAURA C; AMY J; SORENSEN ANDREW D; SOREN ANDREW D

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

37) Family number: 43217678 (US2009117642A)

Title: ALPHA-AMYLASE VARIANTS WITH ALTERED PROPERTIES

Abstract: Source: US2009117642A Disclosed are compositions comprising variants of a parent G. stearothermophilus alpha-amylase that have alpha-amylase activity and which exhibit altered properties relative to a parent AmyS-like alpha-amylase from which they are derived. The compositions comprise an additional enzyme such as a phytase. Also disclosed are methods of using the compositions, and kits related thereto.



Classifications:
International (IPC 8-9): A21D2/00 A21D2/16 A21D2/26 A21D8/04 A23C17/00 A23G3/00 A23K1/165 A23K1/18 A23L1/03 A23L1/09 A23L1/202 A23L1/28 A61K38/46 C07H21/00 C07H21/04 C07K1/00 C07K14/32 C07K14/43 C07K14/435 C07K17/00 C08B30/12 C11D17/06 C11D17/08 C11D3/02 C11D3/37 C11D3/386 C11D3/395 C11D3/40 C11D3/48 C11D3/50 C11D3/60 C11D7/42 C12C11/00 C12D3/00 C12D3/386 C12G3/00 C12N1/00 C12N1/15 C12N1/19 C12N1/20 C12N1/21 C12N15/00 C12N15/09 C12N15/11 C12N15/56 C12N15/63 C12N15/75 C12N5/10 C12N9/00 C12N9/02 C12N9/14 C12N9/16 C12N9/18 C12N9/20 C12N9/24 C12N9/26 C12N9/28 C12N9/96 C12P19/14 C12P19/34 C12P21/06 C12P7/06 C12P7/10 C12S11/00 C12S9/00 D06L1/00 D06L3/11 D06M15/00 D06M16/00 (Advanced/Invention);
C11D3/386 C12N15/09 C12N15/56 C12N15/75 C12N9/14 C12N9/28 (Advanced/Non-invention);
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C11D C12N (Subclass/Invention)
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Inventor(s): SCOTT D POWER ; UORD DONAL'D ; LUIS G CASCAO PEREIRA ; KELLIS DZHEJMS T ; BRIAN E JONES ; KARSTEN M KRAGH ; JAMES T KELLIS ; JAMES T KELLIS JR ; JAYARAMA K SHETTY

Agent(s): HOULIHAN2; HOULIHAN²; KREMER SIMON MARK; YAMASAKI YUKUZO; AKAMATSU TOSHIAKI; GENENCOR INT INC ATTENTION LEGAL DEPARTMENT; DANISCO US INC ATTENTION LEGAL DEPARTMENT; STEVEN G BACSI DANISCO US INC GENENCOR DIVISION; DRINKER BIDDLE AND REATH (DC); DRINKER BIDDLE AND REATH; DRINKER BIDDLE AND REATH LLP; DANISCO US INC; MEYER MERCEDES K; BACSI STEVEN G ET AL; INSPICOS A S; TODD STEPHEN

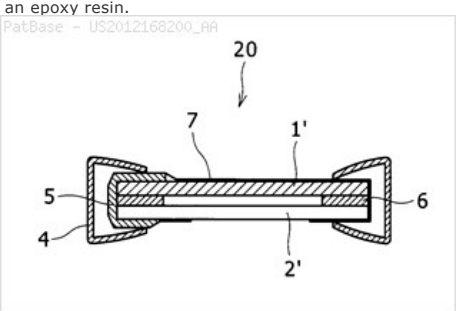
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

38) Family number: 49086577 (US2012168200A)

Title: METHOD FOR MANUFACTURING JOINT STRUCTURE OF **STEEL** SHEET AND ALUMINUM SHEET, AND JOINT STRUCTURE OF **STEEL** SHEET AND ALUMINUM SHEET MANUFACTURED BY THE METHOD

Abstract: Source: US2012168200A A process for producing a joint structure of a **steel** sheet and an aluminum sheet, in which the **steel** sheet and the aluminum sheet are joined to each other so as to be electrically connected to each other. The process is characterized by comprising a step of forming at least one resin coating film in a thickness of 0.1 to 5.0 and mum on a contact surface on the **steel** sheet side, wherein the resin is selected from the group consisting of a polyolefin resin, a polyurethane resin and an epoxy resin.

Classifications:
International (IPC 8-9): B23K103/16 B23K103/20 B23K11/16 B23K11/20 H01B5/00 H01R4/04 (Advanced/Invention);
B23K103/16 B23K103/20 (Advanced/Non-invention)
CPC: B23K11/115 B23K11/166 B23K11/20 B23K2201/006 B23K2201/18 B23K2201/34 B23K2203/20
European: B23K11/11B B23K11/16C2 B23K11/20 L23K201/00N L23K201/18 L23K201/34 L23K203/20
US: 156/49 156/49S 174/126.1 174/126.100P



Family:

Publication number	Publication date	Application number	Application date
CN102665996 A	20120912	CN201080045670	20101203
GB201206787 A0	20120530	GB20120006787	20101203
GB2488056 A1	20120815	GB20120006787	20101203
JP2011140067 A2	20110721	JP20100236684	20101021
KR20120082030 A	20120720	KR20127014713	20101203
US2012168200 AA	20120705	US20100395904	20101203
WO11070978 A1	20110616	WO2010JP71686	20101203

Priority:
JP20090280890 20091210 JP20100236684 20101021 WO2010JP71686 20101203

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Agent(s): TANAKA MITSUO ET AL

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