Industria y Comercio

SUPERINTENDENCIA

Delegatura de Propiedad Industrial

División de Nuevas Creaciones

PCT

SOLICITUD

PATENTE DE INVENCION

21. **EXPEDIENTE No.** 04-57488

54. **TITULO** ALIMENTOS MEJORADOS PARA BEBES

51. **CLASIFICACION INTERNACIONAL** A61K 1/30

71. **SOLICITANTE** GERBER PRODUCTS COMPANY

DOMICILIO Fremont, Michigan, Estados Unidos

74. **APODERADO** JIMENA ESCOBAR URIBE

22. **BOGOTA, D.C.,** Junio 18 de 2004

(FORMA P-10)

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Dependencia: 2020 DIVISION DE NUEVOS CREACIONES

Industria y Com rcio
SUPERINTENDENCIA

FORMULARIO ÚNICO DE SOLICITUD DE PATENTE
PCT
ENTRADA EN FASE NACIONAL

SOLICITUD DE:

[X] Patente de Invención [ ] Patente de Modelo de Utilidad

[ ] Capítulo I [X] Capítulo II

2 SOLICITANTE (71)

Nombre: GERBER PRODUCTS COMPANY
Dirección: 445 State Street, Fremont, Michigan 49413-0001
Nacionalidad o Domicilio: Fremont, Michigan, Estados Unidos
País de Constitución: Estados Unidos
Teléfono: Fax:
E-mail:

IDENTIFICACIÓN
C.C. [ ] NIT [ ]
C.E. [ ] Otro [ ]
Número:

3 REPRESENTANTE O APODERADO (74)

Nombre: JIMENA ESCOBAR URIBE
Dirección: Cra. 11A No. 94-76 (Of. 305)
Teléfono: 6 162051/61 Fax: 6 161889
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IDENTIFICACIÓN
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Número 39.779.452 T.P 68228

4 INVENTOR (ES) (72)

Nombre: VER ANEXOS
Dirección:
Nacionalidad o Domicilio:

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6. TITULO (54) ALIMENTOS MEZCLADOS PARA BEBÉS.

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9. Comprobante de pago No. 04536805 **Fecha** Mayo 10/2004

10 **ANEX S**

- [x] Comprobante de pago de la tasa de presentación de la solicitud
- [x] Documento que acredita la existencia y representación legal cuando el solicitante sea persona
- [x] Poderes si fuere el caso
- [x] Documento de cesión del inventor al solicitante o a su causante
- [ ] Declaraciones
- [x] Copia de la solicitud internacional. (Resumen, descripción, reivindicaciones, dibujos)
- [x] Traducción de la solicitud internacional al castellano. (Resumen, descripción, reivindicaciones, dibujos)
- [x] Copia del examen preliminar internacional efectuado por la Autoridad Internacional de Examen Preliminar (IPEA).
- [ ] Traducción del examen preliminar internacional efectuado por la IPEA
- [ ] De ser el caso copia de contrato de acceso.
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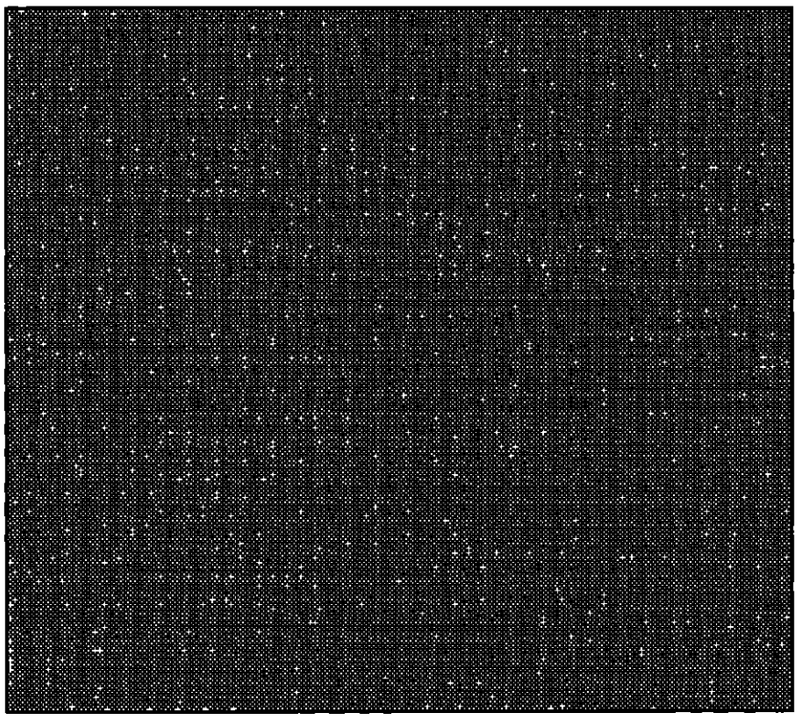
- [ ] De ser el caso, certificado de deposito del material biológico
- [ ] Arte final 12 X 12 .
- [ ] De ser el caso, información sobre otras solicitudes de patente o títulos obtenidos en el extranjero por el mismo titular o su causante, relacionadas parcial o totalmente con la invención de esta solicitud.
- [ ] De ser el caso, modificaciones efectuadas a la solicitud internacional
- [x] Otros " Opinión escrita ".

11 FIGURA CARACTERÍSTICA



12 Solicito la concesión de la patente

NOMBRE: JIMENA ESCOBAR URIBE

FIRMA:

C.C. 39.779.452 DE Usaquén T.P. 68.228

As. 2974/PCT

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SUPERINTENDENCIA Y COMERCIO
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Dependencia: 2020 DIVISION DE NUEVAS CREACIONES

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FECHA : JUNIO 10 DE 2004

C O N S I G N A C I O N

DEPOSITANTE	TIPO PAGO	BANCO	CUENTA	No. PAGO	FECHA PGO	Vr. PAGO
ESCOBAR URIBE ASOCIADOS	CONSIGNACION	BANCO POPULAR	050-00110-6	21260999	09/06/2004	4,675,000.00

C O N C E P T O

CANT.	RENTISTICO	CONCEPTO	TOTAL CONCEPTO
1	50005-01-01 SOLICITUDES	1 TRAMITES DE SOL. DE PATENTE DE IN	422,000.00
		TOTAL : $	422,000.00

SON: CUATROCIENTOS VEINTIDOS MIL PESOS

RESPONSABLE : _____

RECIBO DE CAJA APLICADO AL EXPEDIENTE No._____

ANEXOS

INVENTORES

1.) **CARY, Julie**
(27 Willever Road, Asbury, New Jersey 08802, Estados Unidos de América);

2.) **COLETTA, Frances, Alexandria**
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3.) **HOCKING, Douglas, Neal**
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4.) **MOHS, Charles**
(7 Kahdena Road, Morristown , New Jersey 07960, Estados Unidos de América).

Solicito expresamente a nombre de la sociedad **GERBER PRODUCTS COMPANY**, sociedad constituida de conformidad con las leyes de Estados Unidos, domiciliada en 445 State Street, Fremont, Michigan 49413-0001, Estados Unidos, el otorgamiento de Patente para la invención titulada **"ALIMENTOS MEZCLADOS PARA BEBES".**

Clase: A23L 1/30

JIMENA ESCOBAR URIBE
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10 EAST 46TH STREET, NUEVA YORK, NY 10017
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EL SUSCRITO CONSUL DE COLOMBIA

VISTOS LOS DOCUMENTOS PRESENTADOS POR LOS INTERESADOS

C E R T I F I C A

Que el (la) Sr. (a) **CLAIRE FRENCH** Clerk del Condado de Morris Estado de NEW JERSEY, verifica la firma del (la) señor(a) **CHRISTINE A. GURRERA.** Como Notario (a) Público (a) del mismo Estado, quien ejerce las funciones allí expresadas y que la firma y sello que aparecen en el documento anexo, son los que usa y acostumbra en sus actos oficiales.

Que el(la) Notario(a) antes mencionado(a) verificó la firma de el(la) señor(a) **CHRISTOPHER G. FITZPATRICK.** Quien firma el precedente documento debidamente autorizado en su calidad de Vicepresidente, Secretario y Cónsul General de **GERBER PRODUCTS COMPANY.** Empresa Legalmente organizada y existente de conformidad con las leyes de Estados Unidos de Norte América.

OCT 11 2000

Que ha tenido a la vista los documentos probatorios de los hechos citados anteriormente, los cuales forman parte integral del precedente documento.

Se expide la anterior certificación de conformidad con el artículo 259 del Código de Procedimiento Civil y 480 del Código de Comercio y a solicitud del interesado a los 11 días del mes de OCTUBRE del 2000.

NO SE ASUME RESPONSABILIDAD POR EL CONTENIDO DEL DOCUMENTO ADJUNTO

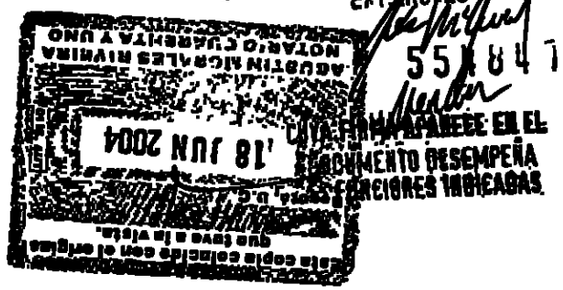
PAGADO IMPUESTO DE TIMBRE Y DERECHOS CONSULARES

VALOR CINCUENTA Y SIETE DOLARES US$57.oo RECIBO No. 257834

CONSULADO GENERAL DE COLOMBIA • NUEVA YORK •

José David Name C.
Cónsul de Colombia

Esta copia coincide con el original que tuve a la vista.
Bogotá, D.C.
18 JUN 2004
LUIS RIVEIRA
NOTARIA UNO



MINISTERIO DE RELACIONES EXTERIORES

55847

LA FIRMA APARECE EN EL DOCUMENTO DESEMPEÑA FUNCIONES INDICADAS

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OCT 24

JEFE DE LEGALIZACIONES
SANTAFE DE BOGOTA D.C.

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Carrera 11A No. 94 - 76 Of. 305 - P.O. Box 94948, Sucursal de Bogotá Colombia S.A.
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POWER OF ATTORNEY

The undersigned
CHRISTOPHER G. FITZPATRICK
acting on behalf of and representing
GERBER PRODUCTS COMPANY
domiciled in
445 State Street.Fremont, Michigan 94413-0001, U.S.A.

hereby appoint
JIMENA ESCOBAR-URIBE Y/O IGNACIO ESCOBAR-URIBE
domiciled in Bogota, Colombia
CARRERA 11 A No. 94-76 OF. 305-306

as our true and legal attorneys with the necessary powers: 1. to apply to the administrative, judicial and police authorities of the Republic of Colombia, in any instance or appeal, for obtaining registration of patents, utility models, industrial designs, commercial ensigns and names, trademarks, copyrights and neighbouring rights, plant varieties, health licenses as well as their assignments, extensions, renewals, changes of name and domicile; 2. to prepare, apply for, obtain, execute and register contracts, licenses, authorizations and registrations of any kind; 3. to intervene as plaintiffs or defendants, in any instance or appeal, before any judge, court, tribunal, corporation, public officer or authority in any judicial, administrative or police action, such as: actions dealing with commercial ensigns and names; oppositions against trademark registrations; caducity and nullity actions; recovery actions, actions arising from obtainment and working of license agreements; actions dealing with unfair competition; criminal actions; actions claiming indemnity for damages, complaints or remarks on all sort of industrial property matters; the performance of precautionary measures, and in any other similar action, measure or appeal related to industrial property matters, copyrights and neighbouring rights and obtentor of plant varietie's rights.
To this effect, we hereby authorize them to file applications, make descriptions, amendments, protests, declarations, oppositions, cancellations, appeals and claims; to pay taxes, quotas and liens as provided by law; to waive or abandon granted rights or rights in process of being granted, to receive all kind of documents and securities; to issue the respective releases and, in general, to take, before said authorities, pertinent steps to the abovementioned purposes and take all measures they may deem advisable to protect our interests, with all other necessary legal faculties, and we hereby declare as good and valid whatever the attorneys should do to our benefit.
This power comprises the authority to ratify or confirm on our behalf any action, as well as the faculty of receiving, desisting, transacting, compromising, conciliating, substituting and revoking substitutions, taking notifications and appointing judicial or extrajudicial attorneys.

Signed in Summit, New Jersey USA
on Sept. 28, 2000
SIGNATURES: Vice President, General Counsel
Christine A. Gurnee

DOCUMENTO DE PODER

El suscrito
CHRISTOPHER G. FITZPATRICK
obrando a nombre y representación de
GERBER PRODUCTS COMPANY
con domicilio en 445 STATE STREET, FREMONT, MICHIGAN, ESTADOS UNIDOS DE AMERICA
nombra a
JIMENA ESCOBAR-URIBE Y/O IGNACIO ESCOBAR-URIBE
domiciliados en Bogotá, Colombia
CARRERA 11 A No. 94-76 OF. 305-306

apoderados verdaderos y legales con poder especial, amplio y suficiente: 1. para recabar de las oficinas y autoridades colombianas administrativas, judiciales y de policía en cualquier instancia o recurso, la obtención de patentes de invención, modelos de utilidad, diseños industriales, registro de marcas, registro de derechos de autor y derechos conexos, registro de variedades vegetales,depósito de nombres comerciales y enseñas, registros sanitarios, así como sus traspasos, prórrogas, renovaciones, cambios de nombre y de domicilio; 2. elaborar, tramitar, solicitar, obtener, realizar, ejecutar y registrar contratos, licencias, autorizaciones y registros de cualesquiera clase; 3. intervenir como demandante o como demandado en cualquier instancia y recurso, y ante cualquier juez, entidad, corporación, funcionario público o autoridad en acciones judiciales, administrativas y de policía, tales como acciones derivadas del nombre o enseña comerciales; oposición al registro de marcas; acciones de caducidad y nulidad; acciones reivindicatorias; acciones derivadas de la obtención o explotación de licencias; acciones de competencia desleal; demandas penales y civiles; acciones de indemnización de perjuicios, reclamos u observaciones a cualquier asunto sobre propiedad industrial; el ejercicio de medidas cautelares y cualesquiera otras acciones, medidas o recursos similares relacionados con la propiedad industrial, los derechos de autor y derechos conexos y los derechos de obtentor de variedades vegetales.
A este efecto, los facultamos para elevar solicitudes, formular descripciones, enmiendas, protestas, declaraciones, oposiciones, cancelaciones, apelaciones y reclamos;pagar impuestas, cuotas y gravámenes prescritos por la ley; renunciar o desistir a derechos concedidos o en curso de concesión; recibir toda clase de documentos y valores dando el descargo respectivo, y, en general, para dar ante dichas autoridades todos los pasos necesarios al efecto indicado y tomar todas las medidas que creyeren conducentes al resguardo de nuestros intereses, con todas las demás facultades necesarias y por este documento desde ahora declaramos válido y bueno todo cuanto los apoderados hicieren en nuestro beneficio.
Este poder comprende la facultad de ratificar o confirmar en nuestro nombre lo actuado, así como la facultad de desistir, transigir, comprometer, conciliar, sustituir y revocar sustituciones, recibir notificaciones y nombrar apoderados judiciales o extrajudiciales.

Firmado en Summit, New Jersey, E.E.U.U. de América.
el 28 de septiembre de 2000
Christopher G. FitzPatrick
FIRMA

Esta copia coincide con el original que tuve a la vista.
CHRISTINE A. GURNEE
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 1/AUGUST 2004
AGUSTIN [illegible] RIVEIRA
NOTARIO CIENTO VEINTIUNO

I, M. CLAIRE FRENCH, Clerk of the County of Monmouth

State of New Jersey } ss.
County of Monmouth }

DO HEREBY CERTIFY, That Christine A. Guerrera

whose name is subscribed to the attached certificate of acknowledgment, proof or affidavit, was at the time of taking said acknowledgment, proof or affidavit, a NOTARY PUBLIC, duly commissioned and sworn and residing in said State, and was as such NOTARY PUBLIC, and officer of said State duly authorized by the laws thereof to take and certify the same, as well as to take and certify the proof and acknowledgment of deeds for the conveyance of land, tenements or hereditaments, and other instruments in writing to be recorded in said State, and that the said acknowledgment is duly executed and taken according to the laws of said State, and that full faith and credit are and ought to be given to his/her official acts; and I further certify that I am well acquainted with his/her [illegible] and verily believe the signature to the attached certificate is his/her genuine signature.

And I do further certify that the impression of the seal of such NOTARY PUBLIC is not required by the laws of said State to be filed in my office.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal this [illegible] day of October A.D. 2000

Clerk

TRADUCCION OFICIAL DEL INGLES de la legalización de firmas del poder que GERBER PRODUCTS COMPANY domiciliada en Fremont, Michigan, E.U.A., otorga a Jimena Escobar-Uribe y/o Ignacio Escobar-Uribe.

Estado de New Jersey
Condado de Monmouth

Yo, M. CLAIRE FRENCH, Secretaria del Condado de Monmouth, certifico que Christine A. Gurrera, cuyo nombre aparece suscrito en el adjunto certificado de reconocimiento, prueba o declaración, era en el momento de tomar ese reconocimiento, prueba o declaración Notaria Pública debidamente comisionada y juramentada y domiciliada en el mencionado Estado, y que como Notaria Pública era funcionaria de ese Estado debidamente autorizada por las leyes de éste para tomar y certificar dicho reconocimiento, prueba o declaración y para tomar y certificar la prueba y el reconocimiento de escrituras para el traspaso de tierras, tenencias o herencias y otros instrumentos escritos que han de ser registrados en dicho Estado, y que el mencionado reconocimiento está debidamente ejecutado y tomado conforme a las leyes del mencionado Estado, y que los actos oficiales de dicha Notaria son dignos de toda fe y crédito; y certifico además que conozco bien su firma autógrafa y estoy convencida de que la firma que aparece en el certificado adjunto es la firma genuina de dicha Notaria.

Y certifico también que las leyes de este Estado no exigen que el sello de dicha Notaria esté registrado en mi oficina.

En testimonio de lo cual yo he colocado aquí abajo mi firma y mi sello oficial el dia de hoy, 6 de Octubre del 2000.

M. CLAIRE FRENCH, Secretaria del Condado de Monmouth
(Firma y Sello Oficial)

El documento traducido oficialmente del [illegible] fue legalizado bajo el sello No. 358578 el día 19 [illegible] del 2000 en la Oficina de Legalizaciones [illegible] de Relaciones Exteriores.

MINISTERIO DE RELACIONES EXTERIORES
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OCT 24

JEFE DE LEGALIZACIONES
SANTAFE DE BOGOTA D.C.

RESUMEN

Se dan a conocer alimentos procesados para bebés, los cuales se formulan con lo siguiente:

A. Aceites

Aceites agregados para dar una proporción aceptable de los ácidos grasos esenciales, ácido linoleico (LA) y ácido α-linolénico (ALA), los cuales son los precursores para la síntesis de dos ácidos grasos poliinsaturados de cadena larga esenciales: ácido araquidónico (AA) y ácido docosahexaenoico (DHA).

B. Nucleótidos

Una mezcla de 3 a 6 nucleótidos para dar un nivel de 3 a 6 miligramos/100 kilocalorías, que están asociados con un número de procesos biológicos, siendo el más común el potencial para optimizar la salud de los sistemas inmune y gastrointestinal de los bebés alimentados con leche materna y de algunos bebés y niños pequeños alimentados con fórmula comercial para bebés con nucleótidos agregados.

C. Aceites y Nucleótidos

Una combinación de A y B.

* * * * *

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ALIMENTOS MEZCLADOS PARA BEBÉS

ANTECEDENTES

Esta invención se refiere a alimentos procesados para bebés, con el fin de ser consumidos por bebés humanos y niños pequeños desde la edad de aproximadamente 6 meses hasta 2 años (normalmente bebés hasta la edad de 12 meses), dependiendo de la etapa de desarrollo particular y de las necesidades de alimento del individuo. Los alimentos para bebés, tales como el cereal seco para bebés, los alimentos en puré, y los artículos de panadería son bien conocidos y se han formulado comercialmente con nutrientes claves adicionales, por ejemplo, hierro, zinc, calcio, etc. En la mayoría de los casos, estos alimentos son bajos en grasas y deben darse cuidadosamente en las cantidades correctas para garantizar que los bebés consuman una cantidad adecuada de kilocalorías (Kcals) para proporcionar la energía requerida para un sano crecimiento y desarrollo. Cuando los procesadores comerciales han agregado grasa a estos alimentos, no ha sido una consideración la proporción de dos ácidos grasos específicos (ácido linoleico (LA) y ácido α-linolénico (ALA)). Por consiguiente, los bebés que están haciendo la transición desde una dieta líquida alta en grasa (leche materna o fórmula para bebés) hasta una dieta más baja en grasa de alimentos procesados para bebés (o alimentos

hechos en casa para bebés), pueden no consumir toda la cantidad de energía y/o las proporciones correctas de estos ácidos grasos, los cuales son precursores para la síntesis de dos ácidos grasos poliinsaturados de cadena larga críticos (LCPUFAs): ácido araquidónico (AA) y ácido docosahexaenoico (DHA). Los ácidos grasos poliinsaturados de cadena larga se requieren para el sano crecimiento del bebé, y soportan un amplio rango de procesos metabólicos necesarios para el desarrollo y/o el funcionamiento del cerebro, de la retina, y de otros tejidos nerviosos.

De conformidad con lo anterior, existe una necesidad de una mezcla de grasa diseñada para utilizarse en los alimentos procesados para bebés, que resuelva no solamente la cantidad, sino también la calidad de la grasa, con una proporción aceptable de LA:ALA, incrementando de esta manera la posibilidad de que se satisfagan consistentemente los requerimientos esenciales de ácido graso de los bebés en rápido crecimiento, sobre una base diaria.

De una manera similar, la leche materna y algunas fórmulas para bebés contienen factores que se han identificado como nucleótidos útiles para el desarrollo óptimo de los sistemas inmune y gastrointestinal. Los nucleótidos se pueden considerar como "condicionalmente esenciales" en los bebés en rápido crecimiento que viven en medios ambientes adversos. La adición de estos nucleótidos

puede mejorar la salud y el crecimiento.

Las situaciones bajo las cuales estos componentes pueden llegar a ser condicionalmente esenciales incluyen ciertos estados de enfermedad y períodos de consumo limitado de nutrientes o de rápido crecimiento, junto con la presencia de diferentes factores reguladores y de desarrollo que interfieren con la capacidad del cuerpo para sintetizar los nucleótidos. Además, cuando los bebés están haciendo la transición hacia los alimentos sólidos, pueden ser particularmente importantes las fuentes exógenas de nucleótidos dietéticos. Los ejemplos incluyen: 1) el bebé alimentado con leche materna cuyo consumo de leche materna se reduzca hasta menos del consumo recomendado (600 a 720 mililitros), dando como resultado un consumo reducido concurrente de nucleótidos; y 2) el bebé alimentado con fórmula cuya dieta está baja en nucleótidos. En adición, los primeros alimentos complementarios son con frecuencia cereal, frutas y verduras, todos los cuales son fuentes pobres de nucleótidos. Por lo tanto, los nucleótidos pueden ser condicionalmente esenciales, siendo el paso prudente proporcionar al bebé una fuente dietética adicional de estos factores. No existen formulaciones para alimentos de bebé que estén complementadas con nucleótidos. De conformidad con lo anterior, existe una necesidad de que los alimentos procesados para bebés sean complementados con estos

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componentes, para incrementar la posibilidad de que se satisfagan consistentemente las necesidades de nucleótidos de los bebés en rápido crecimiento, que estén haciendo la transición hacia alimentos complementarios, sobre una base diaria.

COMPENDIO DE LA INVENCIÓN

Esta invención se refiere a estos tres tipos de mezclas en alimentos procesados para bebés:

A. Alimentos procesados para bebés, que comprenden una mezcla de aceites con una proporción aceptable de LA:ALA.

Un alimento para bebés que comprende dos ácidos grasos en una mezcla de aceite, que suministra una proporción aceptable de ácidos grasos esenciales (es decir, una proporción en peso de LA:ALA de 7-12:1), el cual es un requerimiento continuo de los bebés que están haciendo la transición desde una dieta alta en grasa de leche materna o fórmula para bebés, hasta un alimento procesado para bebés. La composición para esta mezcla se basa en la proporción de los aceites utilizados en la fórmula para bebés, que se ha demostrado no solamente que es bien tolerada y absorbida, sino que también soporta el crecimiento y desarrollo en los bebés. Adicionalmente, esta mezcla de aceite no imparte un sabor o apariencia objecionable al alimento, es bien aceptada

por los bebés, y se incorpora fácilmente en un amplio rango de alimentos procesados para bebés. También, la mezcla de aceite mejora las propiedades sensoriales del alimento para bebés, al enmascarar los sabores de algunos fortificantes, tales como hierro, zinc, etc., y proporciona una sensación en la boca y sabor más plenos.

B. Alimentos procesados para bebés, que comprenden una mezcla de 3 a 6 nucleótidos en un nivel aceptable por 100 kilocalorías.

Un alimento procesado para bebés que comprende una mezcla de 3 a 6 nucleótidos, para igualar un nivel aceptable de 3 a 6 miligramos/100 kilocalorías, que pueden ser condicionalmente esenciales para los bebés que están haciendo la transición desde una dieta alta en grasa de leche materna o de fórmula para bebés, hasta los alimentos procesados para bebés, quienes pueden no estar consumiendo la cantidad recomendada de 600 a 720 mililitros de leche materna o fórmula para bebés. Se ha demostrado que la fórmula para bebés complementada con nucleótidos en este nivel, no solamente es bien tolerada y absorbida, sino que también soporta el crecimiento y desarrollo en los bebés, de edades de 3 a 8 meses. Esta mezcla de nucleótidos no imparte un sabor o apariencia objecionable, es bien aceptada por los bebés, y se incorpora fácilmente en un amplio rango de

alimentos procesados para bebés.

C. Alimentos procesados para bebés, que comprenden tanto una mezcla de aceites con una proporción aceptable de LA:ALA, como una mezcla de 3 a 6 nucleótidos en un nivel aceptable por 100 kilocalorías (como se describe en A y B anteriores).

DESCRIPCIÓN DETALLADA

Un aspecto de la invención es un alimento procesado para bebés que comprende una mezcla del 1.5 al 3.0 por ciento (de preferencia del 2 al 2.5 por ciento; más preferiblemente del 2 por ciento) de aceites que comprenden ácido linoleico y ácido α-linolénico, en una proporción de LA:ALA de 7-12:1 (de preferencia de 8-10:1; más preferiblemente de 9-101; y de una manera muy preferible de 9.35:1), todos los porcentajes en peso/peso, en donde los aceites son aceite de soya, aceite de girasol altamente oleico, aceite de coco, o una combinación de dos a tres de estos aceites. Se prefiere una combinación de tres aceites.

Otro aspecto de la invención es un alimento procesado para bebés que comprende de 3 a 6 nucleótidos en un nivel de 3 a 6 miligramos/100 kilocalorías, seleccionados a partir del grupo que consiste en adenosina, citidina, guanosina, uridina, inosina, y timidina. El nivel de

preferencia es de 4 a 5 miligramos/100 kilocalorías; más preferiblemente de 4.7 miligramos/100 kilocalorías. De preferencia, se utilizan cinco nucleótidos, seleccionados a partir del grupo que consiste en adenosina, citidina, guanosina, uridina, e inosina.

Otro aspecto de la invención es un alimento procesado para bebés que comprende una mezcla del 1.5 al 3.0 por ciento de aceites que comprenden ácido linoleico y ácido α-linolénico, en una proporción de LA:ALA de 7-12:1, todos los porcentajes en peso/peso, y de 3 a 6 nucleótidos en un nivel de 3 a 6 miligramos/100 kilocalorías, seleccionados a partir del grupo que consiste en adenosina, citidina, guanosina, uridina, inosina, y timidina.

Todavía otro aspecto de la invención es un método para complementar la dieta de un bebé o de un niño pequeño de la edad de 6 a 24 meses, con precursores para la síntesis de ácido araquidónico y ácido docosahexaenoico, el cual comprende alimentar a este bebé con un alimento que comprende una mezcla de aceites como se describe anteriormente.

Un aspecto adicional es un método para complementar la dieta de un bebé o de un niño pequeño de una edad de 6 a 24 meses, con nucleótidos, el cual comprende alimentar al bebé con un alimento que comprende de 3 a 6 nucleótidos como se describe anteriormente.

Un aspecto adicional es un método para complementar

la dieta de un bebé o de un niño pequeño de una edad de 6 a 24 meses, con precursores para la síntesis de ácido araquidónico y ácido docosahexaenoico y con nucleótidos, el cual comprende alimentar al bebé con un alimento que comprende una mezcla de aceites como se describe anteriormente, y de 3 a 6 nucleótidos como se describe anteriormente.

En la presente se utilizan los siguientes términos:

Bebé significa un niño desde su nacimiento hasta 12 meses de edad.

Niño pequeño o niño que empieza a andar, significa un niño de 13 a 36 meses de edad.

Leche materna significa la leche humana.

Las fórmulas para bebés son sustitutos de leche materna altos en grasa, formulados, comercialmente procesados, que pueden ser un complemento para la leche materna, o la única fuente de nutrientes, energía, y fluidos requeridos por los bebés para su crecimiento y desarrollo. Las fórmulas para bebés normalmente se utilizan hasta aproximadamente los 6 meses de edad, luego se consumen en cantidades decrecientes hasta la edad de 12 meses, y más allá de este rango de edades para algunos niños pequeños.

El término "ácidos grasos esenciales" significa los

ácidos grasos que necesita el cuerpo pero que no puede sintetizar, y que deben ser suministrados por la dieta. Los dos ácidos grasos esenciales principales son ácido linoleico y ácido α-linolénico.

Los nucleótidos son compuestos asociados en un número de procesos biológicos, siendo los más comunes el potencial para optimizar la salud de los sistemas inmune y gastrointestinal de los bebés alimentados con leche materna. Los nucleótidos consisten en una base compuesta de nitrógeno, azúcares de 5 átomos de carbono (ribosa o desoxirribosa), y de uno a tres grupos fosfato. Las bases de nitrógeno se derivan primordialmente de los aminoácidos que forman ya sea una purina o bien una pirimidina. La base (por ejemplo, adenina) más el azúcar, forman un nucleósido (por ejemplo, adenosina) que se enlaza con un grupo fosfato para constituir el nucleótido (por ejemplo, monofosfato de adenosina o AMP). Los ribonucleótidos y los desoxirribonucleótidos son los bloques de construcción para los ácidos nucleicos, ARN y ADN, respectivamente. Los nucleótidos utilizados en la presente son: adenosina (AMP), citidina (CMP), guanosina (GMP), uridina (UMP), inosina (IMP), y timidina (TMP). Cuando se incluyen los seis nucleótidos, se pueden utilizar cantidades tales como las siguientes:

MEZCLA DE NUCLEÓTIDOS

Nucleótido	(mg/100 Kcal)		% en Mezcla
Adenosina (AMP)	0.54	1.08	18
Citidina (CMP)	1.14	2.28	38
Guanosina (GMP)	0.30	0.60	10
Uridina (UMP)	0.63	1.26	21
Inosina (IMP)	0.09	0.18	3
Timidina (TMP)	0.30	0.60	10
TOTAL	3-6		100

Energía se refiere a las kilocalorías liberadas por el metabolismo del alimento, que deben ser suministradas regularmente para satisfacer las necesidades de combustible para la sobrevivencia de un niño. Dentro de este contexto, la grasa se define como una fuente concentrada de energía que necesitan los bebés para dar un combustible eficiente para sus rápidas demandas de crecimiento. (Un gramo de grasa proporciona 9 kilocalorías contra 4 kilocalorías por gramo de carbohidratos o proteínas). Durante el primer año de vida, los bebés a término normalmente duplican su peso al nacer a los 4 a 5 meses, y lo triplican a los 12 meses de edad. Para los bebés prematuros y de peso bajo al nacer, la velocidad de crecimiento es todavía más rápida. En consecuencia, la fuerza de impulso del consumo de alimento por el bebé, es la necesidad de energía para soportar el crecimiento y

desarrollo.

Aproximadamente el 50 por ciento de la energía en la leche materna, y del 40 al 50 por ciento en la fórmula para bebés derivada de leche de vaca, es proporcionado por la grasa. Debido a que los bebés tienen una pequeña capacidad estomacal, la grasa calóricamente densa y fácilmente digerida de la leche materna o de las fórmulas para bebés, ayuda a los bebés a satisfacer efectivamente sus demandas de energía.

Durante la preparación comercial de las fórmulas para bebés, la grasa de mantequilla de la leche de vaca entera es reemplazada con una mezcla de aceites vegetales o con una mezcla de aceites y grasas vegetales. Este reemplazo mejora la digestibilidad y absorción de la grasa, así como proporciona una concentración y proporción aceptable de los ácidos grasos esenciales (LA y ALA en el rango recomendado de un mínimo de 6:1 a un máximo de 16:1), que es referida como la proporción de LA:ALA. Adicionalmente, algunas fórmulas comerciales para bebés son complementadas con una mezcla de nucleótidos en niveles que no exceden la cantidad y composición aceptables presentes en los límites superiores de la leche humana, siendo el máximo rango especificado de 5.0 a 16.0 miligramos/100 kilocalorías.

En algún punto, los bebés y los niños pequeños hacen la transición desde una dieta líquida alta en grasa y nutricionalmente completa de leche materna o fórmula para

bebés (el período de lactancia) hacia un período de alimentación complementaria durante el cual se introducen alimentos para adultos, líquidos, o alimentos procesados para bebés, con el fin de complementar la leche materna o la fórmula para bebés, o pasan directamente a un período de adulto modificado, en donde toda la nutrición viene de alimentos y líquidos para adultos. La velocidad a la cual progresa un niño a través de estas etapas, es determinada por su velocidad de crecimiento, y por la maduración del sistema nervioso, del tracto intestinal, y de los riñones, que también tienen impacto sobre el desarrollo de las habilidades físicas y cognoscitivas requeridas para comer los diferentes tipos de alimentos para bebés diseñados para concordar con el desarrollo de un niño durante cada una de estas etapas.

El alimento procesado para bebé se refiere a alimentos que contienen sólidos que se van a dar a, o que serán usados por, bebés y niños pequeños, desde la edad de aproximadamente 6 meses durante el período de alimentación complementaria o durante el período de adulto modificado (normalmente hasta 2 años de edad, pero potencialmente inclusive más allá de este marco de tiempo), que son adecuados ya sea como un complemento para la leche materna o para la fórmula para bebés cuando llega a ser insuficiente para satisfacer los requerimientos nutricionales del niño, o bien como un reemplazo completo para la leche materna o la

fórmula para bebés. Los 'alimentos pueden comprender cualquier fruta preparada, verdura, carne, cereal, postre, artículo de panadería, jugo, o combinaciones de los mismos, en una forma húmeda o seca adecuada para ser consumida por un niño. El tamaño de cualesquiera partículas en los alimentos procesados para bebés, depende del nivel de habilidades de alimentación de desarrollo del bebé que se va a alimentar, de acuerdo con las prácticas bien conocidas en la técnica, y en general se incrementa a medida que crece el niño. El tamaño de partícula mínimo es de 7 milímetros; el contenido de sólidos es de cuando menos el 12 por ciento en peso. Jugo significa un líquido que contiene un extracto nutriente sólido o puré de una o más frutas o verduras, o combinaciones de las mismas. El término "jugo" también incluye una pasta o concentrado de una o más frutas o verduras, o combinaciones de las mismas, que se ha reconstituido o se ha tratado de reconstituir con un líquido, tal como agua, para obtener un producto final de la concentración deseada, normalmente el 12 por ciento en peso de sólidos totales. Por consiguiente, el alimento procesado para bebés incluye, pero no se limita a, alimentos embotellados fáciles de comer, alimentos secos o instantáneos, cereales, jugos, y artículos de panadería.

Los tamaños de porciones para los alimentos procesados para bebés se calculan en términos de "cantidades de referencia", que se utilizan como los estándares en la

presente. La cantidad de referencia es la cantidad de alimento normalmente consumida por un bebé o niño que empieza a andar por cada ocasión que come. Las diferentes etapas se utilizan para distinguir los alimentos para bebés diseñados para bebés y niños que empiezan a andar de estos diferentes rangos de edad. Los ejemplos de las cantidades de referencia por categorías de productos para bebés y niños que empiezan a andar se muestran en la Tabla 1.

TABLA 1

Ejemplos de Categorías de Productos para Alimentos para Bebés y Niños que empiezan a andar	Cantidad de Referencia (gramos)	Etapa y Rango de Edad (Meses)	Atributos del Producto	Habilidades de Alimentación
Cereal instantáneo seco	15	ETAPA 1 desde aprox. 6	Un solo ingrediente	Se sienta con ayuda. Abre la boca cuando se aproxima la cuchara.
Fruta preparada, verduras, tipo colado	60	ETAPA 1 desde aprox. 6	Un solo ingrediente, puré suave.	Mueve el alimento a la parte posterior de la boca y traga sin náuseas.
Jugo	120 (mL)	ETAPA 2 desde aprox. 6	Ingredientes individuales.	
Cereal preparado	110	ETAPA 2 desde aprox. 6 a 9	>1 ingrediente con puré espeso	Se sienta solo. Aprende a mantener los purés espesos en la boca sin náuseas.
Comida preparada, postre, fruta, verduras, o sopa, tipos colados	60	ETAPA 2 desde aprox. 6 a 9	>1 ingrediente con textura espesa	Empieza a beber de la taza con tapa con ayuda.

Comida preparada, postre, fruta, verduras, o sopa, tipos junior	110	ETAPA 3 desde aprox. 9 a 12	>1 ingredien-te con sabo-res complejos y partículas para formular terrones	Gatea bien y se impulsa para levantarse. Usa la lengua para mover el alimento hacia un lado de la boca para aplastar, moler, y masticar.
Biscochos para dentición listos para comer, galletas, y pan tostado	7 para bebés más grandes	ALIMENTOS PARA DEDOS desde aprox. 9 a 24	Y textura para alentar la mastica-ción y la alimentación con los dedos	Sostiene pequeños alimentos entre el pulgar y el índice para alimentarse solo.
Guisados o sopas preparadas para niños que empiezan a andar	170	NIÑOS QUE EMPIEZAN A ANDAR desde aprox. 12 a 24	Alimentos con sabores y texturas maduros	Camina con asistencia y se para solo.
Verduras preparadas para niños que empiezan a andar. Frutas preparadas para niños que empiezan a andar	70 125	NIÑOS QUE EMPIEZAN A ANDAR desde aprox. 12 a 24	Masticación continua y práctica de auto-alimentación	Muerde a través de una variedad de texturas. Se alimenta con los dedos; empieza a usar utensilios de alimentación para alimentarse.

Las cantidades de kilocalorías por porción para estas diferentes categorías de productos varían ampliamente, por ejemplo: cereal de arroz deshidratado para bebés, 60 kilocalorías/15 gramos; Zanahorias Etapa 1, 21 kilocalorías/ 60 gramos; Cereal Mixto Embotellado con Salsa de Manzana y Plátano Etapa 2, 97 kilocalorías/110 gramos; Salsa de Manzana Embotellada Etapa 2, 32 kilocalorías/60 gramos; Comida de

Verduras y Pollo Embotellada Etapa 2, 37 kilocalorías/60 gramos; Comida de Res con Verduras Embotellada Etapa 3, 71 kilocalorías/110 gramos; Pudín de Natillas de Vainilla Embotellado Etapa 3, 103 kilocalorías/110 gramos; jugo de manzana, 60 kilocalorías/120 mililitros; y bocadillos listos para comer para niños que empiezan a andar, 28 kilocalorías/ 7 gramos.

De una manera similar, el porcentaje de kilocalorías a partir de grasa en diferentes productos alimenticios procesados para bebés, es desde el 28 por ciento en las comidas embotelladas, proporcionando las frutas y verduras kilocalorías primordialmente a partir de carbohidratos. Además, la necesidad de alimentos para bebés calóricamente densos se incrementa a medida que se incrementa el porcentaje de kilocalorías a partir de los alimentos complementarios, progresando el rango desde el 40 por ciento (6 a 8 meses), hasta el 54 por ciento a los 9 a 11 meses; y hasta el 69 por ciento (12 a 24 meses). Por consiguiente, estos alimentos para bebés más bajos en grasa deben darse cuidadosamente en las cantidades correctas para garantizar que los bebés y los niños pequeños consuman las kilocalorías adecuadas y los ácidos grasos esenciales.

Un aspecto preferido de la invención es un alimento procesado para bebés para la alimentación complementaria de

bebés, que se formula con el 2 por ciento de una mezcla de aceite que consiste en una combinación de aceites que tiene una proporción de LA:ALA (peso/peso) de 9.35:1, como se ilustra en la Tabla 2.

TABLA 2

Mezcla de Aceite al 2 por ciento

(Ácido Linoleico y Ácido α-Linolénico)

Fuente de Aceite	% LA	% ALA	% Mezcla	% LA Mezcla	% ALA Mezcla	Proporción en Mezcla Total de LA:ALA
Aceite de Soya	53.7	7.6	25	13.425	1.9	
Aceite de Girasol Altamente Oleico	9.0	0	45	4.05	0	
Aceite de Coco	1.9	0.1	30	0.57	0.03	
Mezcla			100	18.045	1.93	9.350

La nutrición de otros alimentos variará de niño a niño. Sin embargo, en general, se espera que el alimento para bebés de la invención proporcione de aproximadamente el 20 al 40 por ciento de las calorías a partir de la grasa. La mezcla de aceites específicos en los ejemplos de productos para esta invención se proporciona en las Tablas 3 a 6.

TABLA 3

Kilocalorías a partir de Grasa y por Porción

(Fórmula sin Mezcla de Aceite al 2 por ciento)

Ejemplo de Producto	Porción (gramos)	Porción (Kcals)	Kcals (por gramo)	Grasa (gramos)	Kcals de Grasa	% Kcals de Grasa
Zanahorias 1ª Etapa	60.0	21.0	0.4	0.0	0.0	0.0
Salsa de Manzana 2ª Etapa	60.0	32.0	0.5	0.0	0.0	0.0
Comida de Res y Verduras 3ª Etapa	110.0	71.0	0.7	2.3	20.3	28.6
Bocadillos de Panadería - Cereal listos para comer	7.0	28.0	4.0	0.7	6.3	22.5

TABLA 4

Kilocalorías a partir de Grasa y Por Porción

(Fórmula con Mezcla de Aceite al 2 por ciento)

Ejemplo de Producto	Reemplazos de Mezcla de Aceite	Porción (g)	Mezcla de Aceite en peso (g)	Kcals Agregadas	Porción (Kcals)	Kcals (por g)	Grasa (g)	Kcals de Grasa	% Kcals de Grasa
Zanahorias 1ª Etapa	Agua	60	1.2	10.8	31.8	0.5	1.2	10.8	34.0
Salsa de Manzana 2ª Etapa	Agua	60	1.2	10.8	42.8	0.7	1.2	10.8	25.2
Comida de Res y Verduras 3ª Etapa	Otra Grasa	110	2.2	0*	71.0	0.7	2.3	20.3	28.6
Bocadillos de Panadería - Cereal listos para comer	Otra Grasa	7	0.14	0*	28.0	4.0	0.7	6.3	22.5

* La mezcla de aceite reemplaza a las fuentes de grasa existentes en la formulación, y por consiguiente, no se observa cambio alguno en las kilocalorías/porción.

TABLA 5

Formulación de Mezcla de Aceite al 2% en Peso

Etapa	Porción (g)	Porción (Kcal)	Mezcla de Aceite: Gramos por Porción			Mezcla de Aceite: G/100 Kcal de Producto*		
			Aceite de Soya	Aceite de girasol	Aceite de Coco	Aceite de Soya	Aceite de girasol	Aceite de Coco
Zanahorias Etapa 1	60	31.8	0.30	0.54	0.36	0.94	1.70	1.13
Salsa de Manzana Etapa 2	60	42.8	0.30	0.54	0.36	0.70	1.26	0.84
Comida de Res y Verduras Etapa 3	110	71	0.55	0.99	0.66	0.77	1.39	0.93
Bocadillos de Cereal listos para comer	7	28	0.04	0.06	0.04	0.13	0.23	0.15

TABLA 5

Formulación de Mezcla de Aceite al 2% en Peso

Etapa	Porción (g)	Porción (Kcal)	LA/ALA G/Porción			LA/ALA G/100 Kcals*		
			LA	ALA	LA:ALA	LA	ALA	LA:ALA
Zanahorias Etapa 1	60	31.8	0.22	0.02	9.35	0.68	0.07	9.35
Salsa de Manzana Etapa 2	60	42.8	0.22	0.02	9.35	0.51	0.05	9.35
Comida de Res y Verduras Etapa 3	110	71	0.40	0.04	9.35	0.56	0.06	9.35
Bocadillos de Cereal listos para comer	7	28	0.03	0.00	9.35	0.09	0.01	9.35

TABLA 7

Fórmula sin Mezcla de Aceite

Ejemplo de Producto	Porción (g)	Porción (Kcals)	Kcals de Grasa	% Kcals de Grasa
Zanahorias 1ª Etapa	60.0	21.0	0.0	0.0
Salsa de Manzana 2ª Etapa	60.0	32.0	0.0	0.0
Comida de Res y Verduras 3ª Etapa	110.0	71.0	20.3	28.6
Bocadillos de Panadería-Cereal listos para comer	7.0	28.0	6.3	22.5

TABLA 8

Fórmula con Mezcla de Aceite al 2 por ciento

Ejemplo de Producto	Porción (g)	Porción (Kcals)	Kcals de Grasa	% Kcals de Grasa	Cambio en	
					Cantidad	Calidad
Zanahorias 1ª Etapa	60	31.8	10.8	34.0	X	X
Salsa de Manzana 2ª Etapa	60	42.8	10.8	25.2	X	X
Comida de Res y Verduras 3ª Etapa	110	71.0	20.3	28.6		X
Bocadillos de Panadería-Cereal listos para comer	7	28.0	6.3	22.5		X

* La mezcla de aceite reemplaza a las fuentes de grasa existentes en la formulación, y por consiguiente, no se observa cambio alguno en las kilocalorías/porción.

Otro aspecto de la invención es un alimento procesado para bebés para alimentación complementaria, formulado con 3 a 6 nucleótidos para igualar un nivel de 3 a 6 miligramos/100 kilocalorías. En las Tablas 9 y 10 se ilustran las formulaciones para una mezcla de nucleótidos, en los ejemplos de los productos por porción y 100 kilocalorías para esta invención.

TABLA 9

Formulaciones con Mezcla de Nucleótidos

Ejemplo de Producto	Porción (g)	Porción (Kcal)	Miligramos por Porción					
			AMP	GMP	IMP	CMP	UMP	TOTAL
Zanahorias Etapa 1	60	21	0.180	0.090	0.030	0.479	0.210	0.988
Salsa de Manzana Etapa 2	60	32	0.274	0.137	0.046	0.729	0.319	1.505
Comida de Res y Verduras Etapa 3	110	71	0.608	0.304	0.102	1.617	0.708	3.339
Bocadillos de Cereal listos para comer	7	28	0.240	0.120	0.040	0.638	0.279	1.317

(Continúa Tabla 9)

Ejemplo de Producto	Miligramos por 100 Kilocalorías					
	AMP	GMP	IMP	CMP	UMP	TOTAL
Zanahorias Etapa 1	0.855	0.428	0.143	2.280	0.998	4.704
Salsa de Manzana Etapa 2	0.855	0.428	0.143	2.280	0.998	4.704
Comida de Res y Verduras Etapa 3	0.855	0.428	0.143	2.280	0.998	4.704
Bocadillos de Cereal listos para comer	0.855	0.428	0.143	2.280	0.998	4.704

TABLA 10A

Formulaciones con Mezcla de Aceite al 2 por ciento y Mezcla de Nucleótidos

Ejemplo de Producto	Porción (g)	Porción (Kcal)	Miligramos por Porción					
			AMP	GMP	IMP	CMP	UMP	TOTAL
Zanahorias Etapa 1	60	31.8	0.272	0.136	0.045	0.725	0.317	1.496
Salsa de Manzana Etapa 2	60	42.8	0.366	0.183	0.061	0.976	0.427	2.014
Comida de Res y Verduras Etapa 3	110	71	0.608	0.304	0.102	1.617	0.708	3.339
Bocadillos de Cereal listos para comer	7	28	0.240	0.120	0.040	0.638	0.279	1.317

(Continúa Tabla 10)

Ejemplo de Producto	Miligramos por 100 Kilocalorías					
	AMP	GMP	IMP	CMP	UMP	TOTAL
Zanahorias Etapa 1	0.855	0.428	0.143	2.280	0.998	4.704
Salsa de Manzana Etapa 2	0.855	0.428	0.143	2.280	0.998	4.704
Comida de Res y Verduras Etapa 3	0.855	0.428	0.143	2.280	0.998	4.704
Bocadillos de Cereal listos para comer	0.855	0.428	0.143	2.280	0.998	4.704

La invención se define además haciendo referencia a los siguientes ejemplos, los cuales pretenden ser ilustrativos y no limitantes. La Mezcla de Aceite utilizada en los Ejemplos es como se muestra en la Tabla 2. Se utiliza la siguiente mezcla (posteriormente en la presente, Mezcla de Nucleótidos) en los ejemplos:

Mezcla de Nucleótidos

Nucleótido	mg/100 Kcal	% en Mezcla
Adenosina (AMP)	0.855	18.176
Citidina (CMP)	2.280	48.469
Guanosina (GMP)	0.428	9.099
Uridina (UMP)	0.998	21.258
Inosina (IMP)	0.143	3.040
Mezcla Total	4.704	100.000

Ejemplo 1

Zanahorias Etapa 1 Formuladas con Mezcla de Aceite

Se formula un lote de 1,000 kilogramos, comprendido de zanahorias en puré, agua, y 20 kilogramos de la Mezcla de Aceite, que luego se ajusta a una viscosidad objetiva. En seguida, el lote se mezcla completamente para distribuir de manera apropiada los materiales crudos, y se calienta hasta la temperatura de llenado requerida. El producto se empaca en recipientes y se sellan herméticamente. En seguida, los recipientes sellados se procesan utilizando técnicas de procesamiento térmico comercialmente aceptadas. Los paquetes son comercialmente estériles.

Ejemplo 2

Salsa de Manzana Etapa 2 Formulada con Mezcla de Aceite

Se formula un lote de 1,000 kilogramos, comprendido de fruta en puré, azúcar, almidón modificado, Vitamina C, agua, y 20 kilogramos de la Mezcla de Aceite, que luego se ajusta hasta una viscosidad objetiva. En seguida, el lote se mezcla completamente para distribuir de manera apropiada los materiales crudos, y se calienta hasta la temperatura de llenado requerida. El producto se empaca en recipientes y se sellan herméticamente. Luego se procesan los recipientes sellados, utilizando técnicas de procesamiento térmico comercialmente aceptadas. Los paquetes son comercialmente

estériles.

Ejemplo 3

Comida de Res y Verduras Etapa 3 Formulada con Mezcla de Aceite

Se formula un lote de 1,000 kilogramos, comprendido de res, verduras, granos, agua, y 20 kilogramos de la Mezcla de Aceite, que luego se ajusta hasta una viscosidad objetiva. En seguida, el lote se mezcla completamente para distribuir de manera apropiada los materiales crudos, y se calienta hasta la temperatura de llenado requerida. El producto se empaca en recipientes y se sellan herméticamente. Luego se procesan los recipientes sellados, utilizando técnicas de procesamiento térmico comercialmente aceptadas. Los paquetes son comercialmente estériles.

Ejemplo 4

Bocadillos de Cereal Listos para Comer Formulados con Mezcla de Aceite

Se formula un lote de 1,000 kilogramos, comprendido de harina, vitaminas, minerales, azúcar, agua, saborizante, y 20 kilogramos de Mezcla de Aceite, los cuales se mezclan entre sí. En seguida, la masa se mezcla, se hornea, y se corta al tamaño, y luego se empaca.

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Ejemplo 5

Zanahorias Etapa 1 Formuladas con Mezcla de Nucleótidos

Se formula un lote de 1,000 kilogramos, comprendido de zanahorias en puré, agua, y 16.47 gramos de Mezcla de Nucleótidos, que se ajusta hasta una viscosidad objetiva. Basándose en una porción de 60 gramos de 21 kilocalorías, la adición de nucleótidos es igual a 4.704 miligramos/100 kilocalorías o 1.647 miligramos/100 gramos de producto. En seguida, el lote se mezcla completamente para distribuir de manera apropiada los materiales crudos, y se calienta hasta la temperatura de llenado requerida. El producto se empaca en recipientes y se sellan herméticamente. Luego se procesan los recipientes sellados, utilizando técnicas de procesamiento térmico comercialmente aceptadas. Los paquetes son comercialmente estériles.

Ejemplo 6

Salsa de Manzana Etapa 2 Formulada con Mezcla de Nucleótidos

Se formula un lote de 1,000 kilogramos, comprendido de fruta en puré, azúcar, almidón modificado, Vitamina C, agua, y 25.09 gramos de Mezcla de Nucleótidos, que se ajusta hasta una viscosidad objetiva. Basándose en una porción de 60 gramos de 32 kilocalorías, la adición de nucleótidos es igual a 4.704 miligramos/100 kilocalorías o 2.509 miligramos/100 gramos de producto. En seguida, el lote se

mezcla completamente para distribuir de manera apropiada los materiales crudos, y se calienta hasta la temperatura de llenado requerida. El producto se empaca en recipientes y se sellan herméticamente. Luego se procesan los recipientes sellados, utilizando técnicas de procesamiento térmico comercialmente aceptadas. Los paquetes son comercialmente estériles.

Ejemplo 7

Comida de Res y Verduras Etapa 3 Formulada con Mezcla de Nucleótidos

Se formula un lote de 1,000 kilogramos, comprendido de res, verduras, granos, agua, y 30.36 gramos de la Mezcla de Nucleótidos, que entonces se ajusta hasta una viscosidad objetiva. Basándose en una porción de 110 gramos de 71 kilocalorías, la adición de nucleótidos es igual a 4.704 miligramos/100 kilocalorías o 3.036 miligramos/100 gramos de producto. En seguida, el lote se mezcla completamente para distribuir de manera apropiada los materiales crudos, y se calienta hasta la temperatura de llenado requerida. El producto se empaca en recipientes y se sellan herméticamente. Luego se procesan los recipientes sellados, utilizando técnicas de procesamiento térmico comercialmente aceptadas. Los paquetes son comercialmente estériles.

Ejemplo 8

Bocadillos de Cereal Listos para Comer Formulados con Mezcla de Nucleótidos

Se formula un lote de 1,000 kilogramos, comprendido de harina, vitaminas, minerales, azúcar, agua, saborizante, y 188.0 gramos de la Mezcla de Nucleótidos, los cuales se mezclan entre sí. Basándose en una porción de 7 gramos de 28 kilocalorías, la adición de nucleótidos es igual a 4.704 miligramos/100 kilocalorías ó 18.80 miligramos/100 gramos de producto. En seguida, la masa se mezcla, se hornea, se corta al tamaño, y se empaca.

Ejemplo 9

Zanahorias Etapa 1 Formuladas con Mezcla de Aceite y Mezcla de Nucleótidos

Se formula un lote de 1,000 kilogramos, comprendido de zanahorias en puré, agua, 20 kilogramos de la Mezcla de Aceite, y 24.93 gramos de la Mezcla de Nucleótidos, que entonces se ajusta hasta una viscosidad objetiva. Basándose en una porción de 60 gramos de 31.8 kilocalorías, la adición de nucleótidos es igual a 4.704 miligramos/100 kilocalorías o 2.493 miligramos/100 gramos de producto. En seguida, el lote se mezcla completamente para distribuir de manera apropiada los materiales crudos, y se calienta hasta la temperatura de

llenado requerida. El producto se empaca en recipientes y se sellan herméticamente. Luego se procesan los recipientes sellados, utilizando técnicas de procesamiento térmico comercialmente aceptadas. Los paquetes son comercialmente estériles.

Ejemplo 10

Salsa de Manzana Etapa 2 Formulada con Mezcla de Aceite y Mezcla de Nucleótidos

Se formula un lote de 1,000 kilogramos, comprendido de fruta en puré, azúcar, almidón modificado, Vitamina C, agua, 20 kilogramos de Mezcla de Aceite, y 33.56 gramos de la Mezcla de Nucleótidos, que entonces se ajusta hasta una viscosidad objetiva. Basándose en una porción de 60 gramos de 42.8 kilocalorías, la adición de nucleótidos es igual a 4.704 miligramos/100 kilocalorías o 3.356 miligramos/100 gramos de producto. En seguida, el lote se mezcla completamente para distribuir de manera apropiada los materiales crudos, y se calienta hasta la temperatura de llenado requerida. El producto se empaca en recipientes y se sellan herméticamente. Luego se procesan los recipientes sellados, utilizando técnicas de procesamiento térmico comercialmente aceptadas. Los paquetes son comercialmente estériles.

Ejemplo 11

Comida de Res y Verduras Etapa 3 Formulada con Mezcla de Aceite y Mezcla de Nucleótidos

Se formula un lote de 1,000 kilogramos, comprendido de res, verduras, granos, agua, 20 kilogramos de Mezcla de Aceite, y 30.36 gramos de la Mezcla de Nucleótidos, que entonces se ajusta hasta una viscosidad objetiva. Basándose en una porción de 110 gramos de 71 kilocalorías, la adición de nucleótidos es igual a 4.704 miligramos/100 kilocalorías o 3.036 miligramos/100 gramos de producto. En seguida, el lote se mezcla completamente para distribuir de manera apropiada los materiales crudos, y se calienta hasta la temperatura de llenado requerida. El producto se empaca en recipientes y se sellan herméticamente. Luego se procesan los recipientes sellados, utilizando técnicas de procesamiento térmico comercialmente aceptadas. Los paquetes son comercialmente estériles.

Ejemplo 12

Bocadillos de Cereal Listos para Comer Formulados con Mezcla de Aceite y Mezcla de Nucleótidos

Se formula un lote de 1,000 kilogramos, comprendido de harina, vitaminas, minerales, azúcar, agua, saborizante, 20 kilogramos de la Mezcla de Aceite, y 188.0 gramos de la Mezcla de Nucleótidos, los cuales se mezclan entre sí.

Basándose en una porción de 60 gramos de 21 kilocalorías, la adición de nucleótidos es igual a 4.704 miligramos/100 kilocalorías ó 18.80 miligramos/100 gramos de producto. La masa se mezcla y se hornea, luego se corta al tamaño, y se empaca.

REIVINDICACIONES

1. Un alimento procesado para bebés, el cual comprende una mezcla del 1.5 al 3.0 por ciento de aceites que comprenden ácido linoleico y ácido α-linolénico, en una proporción de LA:ALA de 7-12:1, todos los porcentajes en peso/peso.

2. Un alimento para bebés de la reivindicación 1, en donde la proporción es de 8-10:1.

3. Un alimento para bebés de la reivindicación 1, en donde la proporción es de 9-10:1.

4. Un alimento para bebés de la reivindicación 1, en donde la proporción es de 9.35:1.

5. Un alimento para bebés de la reivindicación 1, en donde los aceites son aceite de soya, aceite de girasol altamente oleico, aceite de coco, o una combinación de dos a tres de estos aceites.

6. Un alimento procesado para bebés, el cual comprende de 3 a 6 nucleótidos en un nivel de 3 a 6 miligramos/100 kilocalorías, seleccionados a partir del grupo que consiste en adenosina, citidina, guanosina, uridina, inosina, y timidina.

7. Un alimento procesado para bebés de la reivindicación 6, el cual comprende de 5 nucleótidos en un nivel de 4 a 5 miligramos/100 kilocalorías, seleccionados a

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partir del grupo que consiste en adenosina, citidina, guanosina, uridina, e inosina.

8. Un alimento procesado para bebés, el cual comprende una mezcla del 1.5 al 3.0 por ciento de aceites que comprenden ácido linoleico y ácido α-linolénico, en una proporción de LA:ALA de 7-12:1, todos los porcentajes en peso/peso, y de 3 a 6 nucleótidos en un nivel de 3 a 6 miligramos/100 kilocalorías, seleccionados a partir del grupo que consiste en adenosina, citidina, guanosina, uridina, inosina, y timidina.

9. Un método para complementar la dieta de un niño de aproximadamente 6 a 24 meses de edad, con precursores para la síntesis de ácido araquidónico y ácido docosahexaenoico, el cual comprende alimentar al niño con un alimento de la reivindicación 1.

10. Un método para complementar la dieta de un niño de aproximadamente 6 a 24 meses de edad, con nucleótidos, el cual comprende alimentar al niño con un alimento de la reivindicación 6.

11. Un método para complementar la dieta de un niño de aproximadamente 6 a 24 meses de edad, con precursores para la síntesis de ácido araquidónico y ácido docosahexaenoico y con nucleótidos, el cual comprende alimentar al niño con un alimento de la reivindicación 8.

APOSTILLE

(CONVENTION DE LA HAYE DU 5 OCTOBRE 1961)

1. COUNTRY: UNITED STATES OF AMERICA

2. THIS PUBLIC DOCUMENT HAS BEEN SIGNED BY:
MARY A KEMPEN

3. ACTING IN THE CAPACITY OF:
NOTARY PUBLIC OF NEW JERSEY

4. BEARS THE SEAL/STAMP OF:
MARY A KEMPEN, NOTARY

CERTIFIED

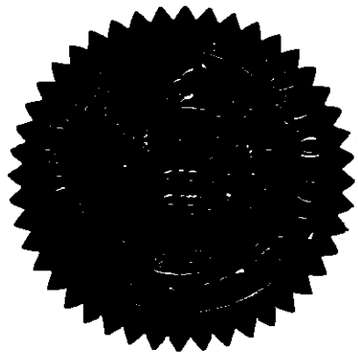
5. AT TRENTON, NEW JERSEY

6. THE 18TH DAY OF MAY 2004

7. BY: John E McCormac, CPA, NEW JERSEY TREASURER

8. NO. A198417

9. SEAL/STAMP:



10. SIGNATURE

CO Case B-32262A/GER

Assignment of Priority Rights

I / We, the undersigned

1. Julie CARY, 4344 Fairfax Avenue, Dallas, TX 75205, USA, citizen of USA
2. Frances Alexandria COLETTA, 233 East Elm Street, Fremont, MI 49412, USA, citizen of USA
3. Douglas Neal HOCKING, 6700 Silver Maple Lane, Rockford MI 49341, USA, citizen of USA
4. Charles MOHS, 7 Kahdena Road, Morristown, NJ 07960, USA, citizen of USA

assign to Gerber Products Company, a body corporate organized according to the laws of the USA, of 445, State Street, Fremont, MI 49413-0001, USA, the right of priority

for Colombia

in respect of the invention disclosed and claimed in my (our) patent application(s) hereinafter identified, and in consequence thereof, authorize Gerber Products Company to file

in Colombia

in its name a patent application corresponding to my (our) patent application(s) filed

in USA

on	November 21, 2001	under No.	60/331987
	December 10, 2001		60/339836

while claiming the priority of my (our) above named patent application(s) in conformity with the dispositions of the International Convention.

dated with effect from November 8, 2002

Julie CARY

Frances Alexandria COLETTA

Douglas Neal HOCKING

Charles MOHS

45

46

STATE OF NEW JERSEY)

)ss:

COUNTY OF Somerset)

Before me, on this 26th day of April, 2004, personally appeared, Charles Mohs, known to me and known to be the person(s) named in the attached document, duly signed and executed the same.

Sworn and subscribed to
before me this 26th
day of April, 2004

Mary A. Kempen
Notary

MARY A. KEMPEN
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires March 6, 2008

Seal

DOCUMENTO DE CESIÓN
ASSIGNMENT DOCUMENT

El (los) suscrito (s), en su calidad de inventor (es) de

declara (an) que cede (n) y traspasa (n) todos los derechos que les correspondan en y sobre el invento atrás mencionado a **Gerber Products Company**, una compañía USA constituida y existente bajo las leyes de USA, domiciliada en 445, State Street, Fremont, MI 49413-0001, USA, en cuanto se refiere a la República de Colombia.

The undersigned, as inventor (s) of

PROCESSED BABY FOOD WITH UNSATURATED FATTY ACIDS AND/OR NUCLEOTIDES

hereby declare (s) that assign (s) all the rights in and to the aforementioned invention to **Gerber Products Company**, a USA company incorporated and existing in conformity with the laws of the USA, domiciled at 445, State Street, Fremont, MI 49413-0001, USA, as far as the Republic of Colombia is concerned.

Julie CARY
domiciled at
4344 Fairfax Avenue, Dallas, TX 75205, USA

FIRMA DEL CEDENTE
domiciliado en

Frances Alexandria COLETTA
domiciled at
233 East Elm Street, Fremont, MI 49412, USA

FIRMA DEL CEDENTE
domiciliado en

Douglas Neal HOCKING
domiciled at
6700 Silver Maple Lane, Rockford MI 49341, USA

FIRMA DEL CEDENTE
domiciliado en

Charles MOHS
domiciled at
7 Kahdena Road, Morristown, NJ 07960, USA

FIRMA DEL CEDENTE
domiciliado en

STATE OF NEW JERSEY)

)ss:

COUNTY OF Somerset)

Before me, on this 26th day of April, 2004, personally appeared, **Charles Mohs**, known to me and known to be the person(s) named in the attached document, duly signed and executed the same.

Sworn and subscribed to
before me this 26th
day of April, 2004

Notary

MARY A. KEMPEN
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires March 6, 2006

Seal

CO Case B-32262A/GER

Assignment of Priority Rights

I / We, the undersigned

1. Julie CARY, 4344 Fairfax Avenue, Dallas, TX 75205, USA, citizen of USA
2. Frances Alexandria COLETTA, 233 East Elm Street, Fremont, MI 49412, USA, citizen of USA
3. Douglas Neal HOCKING, 6700 Silver Maple Lane, Rockford MI 49341, USA, citizen of USA
4. Charles MOHS, 7 Kahdena Road, Morristown, NJ 07960, USA, citizen of USA

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for Colombia

in respect of the invention disclosed and claimed in my (our) patent application(s) hereinafter identified, and in consequence thereof, authorize Gerber Products Company to file

in Colombia

in its name a patent application corresponding to my (our) patent application(s) filed

in USA

on	November 21, 2001	under No.	60/331987
	December 10, 2001		60/339836

while claiming the priority of my (our) above named patent application(s) in conformity with the dispositions of the International Convention.

dated with effect from November 8, 2002

Julie CARY

Frances Alexandria COLETTA

Douglas Neal HOCKING

Charles MOHS

50

51

State of Michigan

DEPARTMENT OF STATE

APOSTILLE

(Convention de La Haye du 5 Octobre 1961)

1. Country: ***UNITED STATES OF AMERICA***

This public document

2. has been signed by: **Lisa M. Stray**

3. acting in the capacity of: **Michigan Notary Public**

4. bears the seal of: **Lisa M. Stray**

Newaygo County, Michigan

CERTIFIED:

5. at Lansing, Michigan ***6. the*** **26th of May, 2004**

7. by Secretary of State, State of Michigan

8. NO. **20701F-04**

9. Seal/Stamp:

10. Signature:

Terri Land

Terri Lynn Land

This verification attests only to the authenticity of the signature of the official who signed the attached document, the capacity in which that official acted, and where appropriate, the identity of the seal or stamp which the document bears. This certification is not intended to imply that the contents of the document are correct, nor that they have the approval of the State of Michigan.

STATE OF MICHIGAN)

)ss:

COUNTY OF Newaygo)

Before me, on this tenth day of May , 2004, personally appeared, **Frances Alexandria Coletta,** known to me and known to be the person(s) named in the attached document, duly signed and executed the same.

Sworn and subscribed to
before me this tenth
day of May , 2004

Lisa M. Straw
Notary

LISA M. STRAW
NOTARY PUBLIC NEWAYGO CO., MI
MY COMMISSION EXPIRES Jul 6, 2008

Seal

CO Case B-32262A/GER

Assignment of Priority Rights

I / We, the undersigned

1. Julie CARY, 4344 Fairfax Avenue, Dallas, TX 75205, USA, citizen of USA
2. Frances Alexandria COLETTA, 233 East Elm Street, Fremont, MI 49412, USA, citizen of USA
3. Douglas Neal HOCKING, 6700 Silver Maple Lane, Rockford MI 49341, USA, citizen of USA
4. Charles MOHS, 7 Kahdena Road, Morristown, NJ 07960, USA, citizen of USA

assign to Gerber Products Company, a body corporate organized according to the laws of the USA, of 445, State Street, Fremont, MI 49413-0001, USA, the right of priority

for Colombia

in respect of the invention disclosed and claimed in my (our) patent application(s) hereinafter identified, and in consequence thereof, authorize Gerber Products Company to file

in Colombia

in its name a patent application corresponding to my (our) patent application(s) filed

in USA

on	November 21, 2001	under No.	60/331987
	December 10, 2001		60/339836

while claiming the priority of my (our) above named patent application(s) in conformity with the dispositions of the International Convention.

dated with effect from November 8, 2002

Julie CARY

Frances Alexandria COLETTA

Douglas Neal HOCKING

Charles MOHS

53

54

State of Michigan

DEPARTMENT OF STATE

APOSTILLE

(Convention de La Haye du 5 Octobre 1961)

1. Country: ***UNITED STATES OF AMERICA***

This public document

2. has been signed by: **Judith A. Boes**

3. acting in the capacity of: **Michigan Notary Public**

4. bears the seal of: **Judith A. Boes**

Newaygo County, Michigan

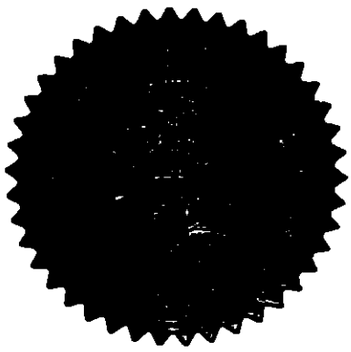
CERTIFIED:

5. at Lansing, Michigan *6. the* **26th of May, 2004**

7. by Secretary of State, State of Michigan

8. NO. **20700F-04**

9. Seal/Stamp:



10. Signature:

Terri Land

Terri Lynn Land

This certification attests only to the authenticity of the signature of the official who signed the attached document, the capacity in which that official acted, and where appropriate, the identity of the seal or stamp which the document bears. This certification is not intended to imply that the contents of the document are correct, nor that they have the approval of the State of Michigan.

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55

STATE OF MICHIGAN)

)ss:

COUNTY OF Newaygo)

Before me, on this 27 day of April, 2004, personally appeared, **Douglas Neal Hocking**, known to me and known to be the person(s) named in the attached document, duly signed and executed the same.

Sworn and subscribed to
before me this
day of April 27, 2004

Judith A. Boes
Notary

JUDITH A. BOES
NOTARY PUBLIC NEWAYGO CO., MI
MY COMMISSION EXPIRES Apr 7, 2008

Seal

55
56

CO Case B-32262A/GER

Assignment of Priority Rights

I / We, the undersigned

1. **Julie CARY, 4344 Fairfax Avenue, Dallas, TX 75205, USA, citizen of USA**
2. **Frances Alexandria COLETTA, 233 East Elm Street, Fremont, MI 49412, USA, citizen of USA**
3. **Douglas Neal HOCKING, 6700 Silver Maple Lane, Rockford MI 49341, USA, citizen of USA**
4. **Charles MOHS, 7 Kahdena Road, Morristown, NJ 07960, USA, citizen of USA**

assign to **Gerber Products Company**, a body corporate organized according to the laws of the USA, of **445, State Street, Fremont, MI 49413-0001, USA**, the right of priority

for **Colombia**

in respect of the invention disclosed and claimed in my (our) patent application(s) hereinafter identified, and in consequence thereof, authorize **Gerber Products Company** to file

in **Colombia**

in its name a patent application corresponding to my (our) patent application(s) filed

in **USA**

on	November 21, 2001	under No.	60/331987
	December 10, 2001		60/339836

while claiming the priority of my (our) above named patent application(s) in conformity with the dispositions of the International Convention.

dated with effect from **November 8, 2002**

Julie Cary

Julie CARY

Frances Alexandria COLETTA

Douglas Neal HOCKING

Charles MOHS

2674

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57

The State of Texas

Secretary of State

APOSTILLE

(Convention de La Haye du 5 Octobre 1961)

1.	**Country:**	**United States of America**
	This public document	
2.	**has been signed by**	**BRENDA K CARPENTER**
3.	**acting in the capacity of**	**Notary Public, State of Texas**
4.	**and bears the seal/stamp of**	**BRENDA K CARPENTER, Notary Public, State of Texas, Commission Expires: 10-28-07**

CERTIFIED

5. **at Austin, Texas**
6. **on May 19, 2004**
7. **by the Secretary of State of Texas**
8. **Certificate No. N-406615**
9. **Seal**
10. **Signature:**

Geoffrey S. Connor
Secretary of State
ST/wn

53
58

STATE OF TEXAS)

)ss:

COUNTY OF DALLAS)

Before me, on this 26th day of April, 2004, personally appeared, Julie Cary, known to me and known to be the person(s) named in the attached document, duly signed and executed the same.

Sworn and subscribed to
before me this 26th
day of April, 2004

Brenda K Carpenter
Notary

Seal

BRENDA K. CARPENTER
Notary Public, State of Texas
My Commission Expires
October 29, 2007

CO Case B-32262A/GER

DOCUMENTO DE CESIÓN
ASSIGNMENT D CUMENT

El (los) suscrito (s), en su calidad de inventor (es) de

declara (an) que cede (n) y traspasa (n) todos los derechos que les correspondan en y sobre el invento atrás mencionado a **Gerber Products Company**, una compañía USA constituida y existente bajo las leyes de USA, domiciliada en 445, State Street, Fremont, MI 49413-0001, USA, en cuanto se refiere a la República de Colombia.

The undersigned, as inventor (s) of

PROCESSED BABY FOOD WITH UNSATURATED FATTY ACIDS AND/OR NUCLEOTIDES

hereby declare (s) that assign (s) all the rights in and to the aforementioned invention to **Gerber Products Company**, a USA company incorporated and existing in conformity with the laws of the USA, domiciled at 445, State Street, Fremont, MI 49413-0001, USA, as far as the Republic of Colombia is concerned.

Julie CARY
domiciled at
4344 Fairfax Avenue, Dallas, TX 75205, USA

FIRMA DEL CEDENTE
domiciliado en

Frances Alexandria COLETTA
domiciled at
233 East Elm Street, Fremont, MI 49412, USA

FIRMA DEL CEDENTE
domiciliado en

Douglas Neal HOCKING
domiciled at
6700 Silver Maple Lane, Rockford MI 49341, USA

FIRMA DEL CEDENTE
domiciliado en

Charles MOHS
domiciled at
7 Kahdena Road, Morristown, NJ 07960, USA

FIRMA DEL CEDENTE
domiciliado en

59
60

State of Michigan

DEPARTMENT OF STATE

APOSTILLE

(Convention de La Haye du 5 Octobre 1961)

1. Country: ***UNITED STATES OF AMERICA***

This public document

2. has been signed by: **Lisa M. Stray**

3. acting in the capacity of: **Michigan Notary Public**

4. bears the seal of: **Lisa M. Stray**

Newaygo County, Michigan

CERTIFIED:

5. at Lansing, Michigan *6. the* **26th of May, 2004**

7. by Secretary of State, State of Michigan

8. NO. **20702F-04**

9. Seal/Stamp:

10. Signature:

Terri Lynn Land

This certificate attests only to the authenticity of the signature of the official who signed the affixed document, the capacity in which that official acted, and where appropriate, the identity of the seal or stamp which the document bears. This certification is not intended to imply that the contents of the document are correct, nor that they have the approval of the State of Michigan.

60
61

STATE OF MICHIGAN)

)ss:

COUNTY OF Newaygo)

Before me, on this tenth day of May , 2004, personally appeared, **Frances Alexandria Coletta,** known to me and known to be the person(s) named in the attached document, duly signed and executed the same.

Sworn and subscribed to
before me this tenth
day of May , 2004

Lisa M. Straw
Notary

LISA M. STRAW
NOTARY PUBLIC NEWAYGO CO., MI
MY COMMISSION EXPIRES Jul 6, 2008

Seal

DOCUMENT DE CESIÓN
ASSIGNMENT DOCUMENT

El (los) suscrito (s), en su calidad de inventor (es) de

declara (an) que cede (n) y traspasa (n) todos los derechos que les correspondan en y sobre el invento atrás mencionado a **Gerber Products Company**, una compañía USA constituida y existente bajo las leyes de USA, domiciliada en 445, State Street, Fremont, MI 49413-0001, USA, en cuanto se refiere a la República de Colombia.

The undersigned, as inventor (s) of

PROCESSED BABY FOOD WITH UNSATURATED FATTY ACIDS AND/OR NUCLEOTIDES

hereby declare (s) that assign (s) all the rights in and to the aforementioned invention to **Gerber Products Company**, a USA company incorporated and existing in conformity with the laws of the USA, domiciled at 445, State Street, Fremont, MI 49413-0001, USA, as far as the Republic of Colombia is concerned.

Julie CARY
domiciled at
4344 Fairfax Avenue, Dallas, TX 75205, USA

FIRMA DEL CEDENTE
domiciliado en

Frances Alexandria COLETTA
domiciled at
233 East Elm Street, Fremont, MI 49412, USA

FIRMA DEL CEDENTE
domiciliado en

Douglas Neal HOCKING
domiciled at
6700 Silver Maple Lane, Rockford MI 49341, USA

FIRMA DEL CEDENTE
domiciliado en

Charles MOHS
domiciled at
7 Kahdena Road, Morristown, NJ 07960, USA

FIRMA DEL CEDENTE
domiciliado en

62.
63

State of Michigan

DEPARTMENT OF STATE

APOSTILLE

(Convention de La Haye du 5 Octobre 1961)

1. Country: ***UNITED STATES OF AMERICA***

This public document

2. has been signed by: **Judith A. Boes**

3. acting in the capacity of: **Michigan Notary Public**

4. bears the seal of: **Judith A. Boes**

Newaygo County, Michigan

CERTIFIED:

5. at Lansing, Michigan *6. the* **26th of May, 2004**

7. by Secretary of State, State of Michigan

8. NO. **20699F-04**

9. Seal/Stamp:

10. Signature:

Terri Land

Terri Lynn Land

This certification attests only to the authenticity of the signature of the official who signed the affixed document, the capacity in which that official acted, and where appropriate, the identity of the seal or stamp which the document bears. This certification is not intended to imply that the contents of the document are correct, nor that they have the approval of the State of Michigan.

STATE OF MICHIGAN)

)ss:

COUNTY OF)

Before me, on this 27 day of April, 2004, personally appeared, Douglas Neal Hocking, known to me and known to be the person(s) named in the attached document, duly signed and executed the same.

Sworn and subscribed to
before me this
day of April 27, 2004

Judith A. Boes

Notary

JUDITH A. BOES
NOTARY PUBLIC NEWAYGO CO., MI
MY COMMISSION EXPIRES Apr 7, 2008

Seal

CO Case B-32262A/GER

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DOCUMENTO DE CESIÓN
ASSIGNMENT D CUMENT

El (los) suscrito (s), en su calidad de inventor (es) de

declara (an) que cede (n) y traspasa (n) todos los derechos que les correspondan en y sobre el invento atrás mencionado a **Gerber Products Company**, una compañía USA constituida y existente bajo las leyes de USA, domiciliada en 445, State Street, Fremont, MI 49413-0001, USA, en cuanto se refiere a la República de Colombia.

The undersigned, as inventor (s) of

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Julie Cary

Julie CARY
domiciled at
4344 Fairfax Avenue, Dallas, TX 75205, USA

FIRMA DEL CEDENTE
domiciliado en

Frances Alexandria COLETTA
domiciled at
233 East Elm Street, Fremont, MI 49412, USA

FIRMA DEL CEDENTE
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Douglas Neal HOCKING
domiciled at
6700 Silver Maple Lane, Rockford MI 49341, USA

FIRMA DEL CEDENTE
domiciliado en

Charles MOHS
domiciled at
7 Kahdena Road, Morristown, NJ 07960, USA

FIRMA DEL CEDENTE
domiciliado en

2674 LS 66

The State of Texas

Secretary of State

APOSTILLE

(Convention de La Haye du 5 Octobre 1961)

1.	**Country:**	**United States of America**
	This public document	
2.	**has been signed by**	**BRENDA K CARPENTER**
3.	**acting in the capacity of**	**Notary Public, State of Texas**
4.	**and bears the seal/stamp of**	**BRENDA K CARPENTER, Notary Public, State of Texas, Commission Expires: 10-28-07**

CERTIFIED

5. **at Austin, Texas**
6. **on May 19, 2004**
7. **by the Secretary of State of Texas**
8. **Certificate No. N-406616**
9. **Seal**
10. **Signature:**

Geoffrey S. Connor
Secretary of State
ST/wn

STATE OF TEXAS)

)ss:

COUNTY OF DALLAS)

Before me, on this 26th day of April, 2004, personally appeared, **Julie Cary**, known to me and known to be the person(s) named in the attached document, duly signed and executed the same.

Sworn and subscribed to
before me this 26th
day of April, 2004

Brenda K Carpenter
Notary

BRENDA K. CARPENTER
Notary Public, State of Texas
My Commission Expires
October 28, 2007

Seal

2674
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PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

International Application No.

International Filing Date

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference *(if desired) (12 characters maximum)* GE/N-32262A/GER

Box No. I TITLE OF INVENTION

BLENDED BABY FOODS

Box No. II APPLICANT ☐ This person is also inventor

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)*

Gerber Products Company
445, State Street
Fremont, MI 49413-0001
USA

Telephone No.
+41 61 324 11 11

Facsimile No.
+41 61 322 75 32

Teleprinter No.

Applicant's registration No. with the Office

State *(that is, country)* of nationality:
US

State *(that is, country)* of residence:
US

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☐ the United States of America only ☒ the States indicated in the Supplemental Box

Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)*

Novartis Nutrition AG
Monbijoustrasse 118
3001 Bern
CH

This person is:
☒ applicant only
☐ applicant and inventor
☐ inventor only *(If this check-box is marked, do not fill in below.)*

Applicant's registration No. with the Office

State *(that is, country)* of nationality:
CH

State *(that is, country)* of residence:
CH

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☐ the United States of America only ☒ the States indicated in the Supplemental Box

☒ Further applicants and/or (further) inventors are indicated on a continuation sheet.

Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: ☒ agent ☐ common representative

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

DIETZ, Jörg
Novartis AG
Corporate Intellectual Property
Patent & Trademark Department
4002 Basel
CH

Telephone No.
+41 61 324 11 11

Facsimile No.
+41 61 322 75 32

Teleprinter No.

Agent's registration No. with the Office

☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

If none of the following sub-boxes is used, this sheet should not be included in the request.

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)*

CARY, Julie
27 Willever Road
Asbury, NJ 08802
US

This person is:
- ☐ applicant only
- ☒ applicant and inventor
- ☐ inventor only *(If this check-box is marked, do not fill in below.)*

Applicant's registration No. with the Office

State *(that is, country)* of nationality: US

State *(that is, country)* of residence: US

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☒ the United States of America only ☐ the States indicated in the Supplemental Box

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)*

COLETTA, Frances Alexandria
233 East Elm Street
Fremont, MI 49412
US

This person is:
- ☐ applicant only
- ☒ applicant and inventor
- ☐ inventor only *(If this check-box is marked, do not fill in below.)*

Applicant's registration No. with the Office

State *(that is, country)* of nationality: US

State *(that is, country)* of residence: US

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☒ the United States of America only ☐ the States indicated in the Supplemental Box

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)*

HOCKING, Douglas Neal
15 Saxton Drive
Hackettstown, NJ 07840
US

This person is:
- ☐ applicant only
- ☒ applicant and inventor
- ☐ inventor only *(If this check-box is marked, do not fill in below.)*

Applicant's registration No. with the Office

State *(that is, country)* of nationality: US

State *(that is, country)* of residence: US

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☒ the United States of America only ☐ the States indicated in the Supplemental Box

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)*

MOHS, Charles
7 Kahdena Road
Morristown, NJ 07960
US

This person is:
- ☐ applicant only
- ☒ applicant and inventor
- ☐ inventor only *(If this check-box is marked, do not fill in below.)*

Applicant's registration No. with the Office

State *(that is, country)* of nationality: US

State *(that is, country)* of residence: US

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☒ the United States of America only ☐ the States indicated in the Supplemental Box

☐ Further applicants and/or (further) inventors are indicated on another continuation sheet.

Box No. V DESIGNATION OF STATES *Mark the applicable check-boxes below; at least one must be marked.*

The following designations are hereby made under Rule 4.9(a):

Regional Patent

☐ **AP** **ARIPO Patent:** GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT *(If other kind of protection or treatment desired, specify on dotted line)* .....

☒ **EA** **Eurasian Patent:** AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT

☒ **EP** **European Patent:** AT Austria, BE Belgium, BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Czech Republic, DE Germany, DK Denmark, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, SK Slovakia, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT

☐ **OA** **OAPI Patent:** BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GQ Equatorial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT *(If other kind of protection or treatment desired, specify on dotted line)* .....

National Patent *(If other kind of protection or treatment desired, specify on dotted line)*:

☒ AE United Arab Emirates	☐ GM Gambia	☒ NZ New Zealand .....
☒ AG Antigua and Barbuda	☒ HR Croatia	☒ OM Oman
☒ AL Albania	☒ HU Hungary	☒ PH Philippines .....
☒ AM Armenia	☒ ID Indonesia	☒ PL Poland .....
☒ AT Austria	☒ IL Israel	☒ PT Portugal .....
☒ AU Australia	☒ IN India	☒ RO Romania
☒ AZ Azerbaijan	☒ IS Iceland	☒ RU Russian Federation .....
☒ BA Bosnia and Herzegovina	☒ JP Japan	.....
☒ BB Barbados	☒ KE Kenya	☐ SD Sudan
☒ BG Bulgaria	☒ KG Kyrgyzstan	☒ SE Sweden
☒ BR Brazil	☒ KP Democratic People's Republic	☒ SG Singapore
☒ BY Belarus	of Korea	☒ SI Slovenia .....
☒ BZ Belize	☒ KR Republic of Korea	☒ SK Slovakia .....
☒ CA Canada	☒ KZ Kazakhstan	☐ SL Sierra Leone .....
☒ CH & LI Switzerland and Liechtenstein	☒ LC Saint Lucia	☒ TJ Tajikistan .....
☒ CN China	☒ LK Sri Lanka	☒ TM Turkmenistan .....
☒ CO Colombia	☐ LR Liberia	☒ TN Tunisia
☒ CR Costa Rica	☐ LS Lesotho	☒ TR Turkey .....
☒ CU Cuba	☒ LT Lithuania	☒ TT Trinidad and Tobago .....
☒ CZ Czech Republic	☒ LU Luxembourg	.....
☒ DE Germany	☒ LV Latvia	☐ TZ United Republic of Tanzania
☒ DK Denmark	☒ MA Morocco	☒ UA Ukraine .....
☒ DM Dominica	☒ MD Republic of Moldova	☐ UG Uganda .....
☒ DZ Algeria	.....	☒ US United States of America .....
☒ EC Ecuador	☐ MG Madagascar	.....
☒ EE Estonia	☒ MK The former Yugoslav Republic of	☒ UZ Uzbekistan .....
☒ ES Spain	Macedonia	☒ VN Viet Nam .....
☒ FI Finland	☒ MN Mongolia	☒ YU Yugoslavia .....
☒ GB United Kingdom	☐ MW Malawi	☒ ZA South Africa .....
☒ GD Grenada	☒ MX Mexico	☐ ZM Zambia
☒ GE Georgia	☐ MZ Mozambique	☒ ZW Zimbabwe .....
☒ GH Ghana	☒ NO Norway	

Check-boxes below reserved for designating States which have become party to the PCT after issuance of this sheet:

☒ VC Saint Vincent and the Grenadines ..	☐	☐ .....
☐	☐	☐ .....

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. *(Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)*

Supplemental Box *If the Supplemental Box is not used, this sheet should not be included in the request.*

1. If, in any of the Boxes, except Boxes Nos. VIII(i) to (v) for which a special continuation box is provided, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No...." (indicate the number of the Box) and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular:

(i) If more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;

(ii) If, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;

(iii) If, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;

(iv) If, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;

(v) If, in Box No. V, the name of any State (or OAPI) is accompanied by the indication "patent of addition," or "certificate of addition," or if, in Box No. V, the name of the United States of America is accompanied by an indication "continuation" or "continuation-in-part": in such case, write "Continuation of Box No. V" and the name of each State involved (or OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;

(vi) If, in Box No. VI, there are more than five earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.

2. If, with regard to the precautionary designation statement contained in Box No. V, the applicant wishes to exclude any State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.

Continuation of Box No. II
Gerber Products Company is applicant for all designated States with the exception of:
TM (Turkmenistan) and US (USA)

Continuation of Box No. III
Novartis Nutrition AG is applicant for
TM (Turkmenistan) only.

Box No. VI PRIORITY CLAIM

The priority of the following earlier application(s) is hereby claimed:

Filing date of earlier application *(day/month/year)*	Number of earlier application	Where earlier application is:		
		national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office
item (1) 21 November 2001 (21.11.01)	60/331987	US		
item (2) 10 December 2001 10.12.01)	60/339836	US		
item (3)				
item (4)				
item (5)				

☐ Further priority claims are indicated in the Supplemental Box.

The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) *(only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office)* identified above as:

☐ all items ☐ item (1) ☐ item (2) ☐ item (3) ☐ item (4) ☐ item (5) ☐ other, see Supplemental Box

** Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)):* ....

.....

Box No. VII INTERNATIONAL SEARCHING AUTHORITY

Choice of International Searching Authority (ISA) *(if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used)*:

ISA / .....

Request to use results of earlier search; reference to that search *(if an earlier search has been carried out by or requested from the International Searching Authority)*:

Date *(day/month/year)* Number Country *(or regional Office)*

Box No. VIII DECLARATIONS

The following declarations are contained in Boxes Nos. VIII (i) to (v) *(mark the applicable check-boxes below and indicate in the right column the number of each type of declaration)*:		Number of declarations
☐ Box No. VIII (i)	Declaration as to the identity of the inventor	:
☐ Box No. VIII (ii)	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	:
☐ Box No. VIII (iii)	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	:
☐ Box No. VIII (iv)	Declaration of inventorship (only for the purposes of the designation of the United States of America)	:
☐ Box No. VIII (v)	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	:

Box No. IX CHECK LIST; LANGUAGE OF FILING

This international application contains:

(a) the following number of sheets in paper form:

request (including declaration sheets)	:	6
description (excluding sequence listing part)	:	15
claims	:	1
abstract	:	1
drawings	:	0
Sub-total number of sheets	:	23
sequence listing part of description *(actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (b) below)*	:	0
Total number of sheets	:	23

(b) sequence listing part of description filed in computer readable form

(i) ☐ only (under Section 801(a)(i))

(ii) ☐ in addition to being filed in paper form (under Section 801(a)(ii))

Type and number of carriers (diskette, CD-ROM, CD-R or other) on which the sequence listing part is contained *(additional copies to be indicated under item 9(ii), in right column)*: .....

This international application is accompanied by the following item(s) *(mark the applicable check-boxes below and indicate in right column the number of each item)*: — **Number of items**

1. ☒ fee calculation sheet : 1
2. ☐ original separate power of attorney :
3. ☐ original general power of attorney :
4. ☒ copy of general power of attorney; reference number, if any: AV 41217 + AV 36893 : 2
5. ☐ statement explaining lack of signature :
6. ☒ priority document(s) identified in Box No. VI as item(s): (1) + (2) : 2
7. ☐ translation of international application into *(language)*: ..... :
8. ☐ separate indications concerning deposited microorganism or other biological material :
9. ☐ sequence listing in computer readable form (indicate also type and number of carriers (diskette, CD-ROM, CD-R or other))
   - (i) ☐ copy submitted for the purposes of international search under Rule 13*ter* only (and not as part of the international application) :
   - (ii) ☐ *(only where check-box (b)(i) or (b)(ii) is marked in left column)* additional copies including, where applicable, the copy for the purposes of international search under Rule 13*ter* :
   - (iii) ☐ together with relevant statement as to the identity of the copy or copies with the sequence listing part mentioned in left column :
10. ☐ other *(specify)*: ..... :

Figure of the drawings which should accompany the abstract:

Language of filing of the international application: English

Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).

In the name of the applicants
The representative

15.11.2002

DIETZ, Jörg, AV 41217 + AV 36893

For receiving Office use only

1. Date of actual receipt of the purported international application:	2. Drawings: ☐ received:
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:	
4. Date of timely receipt of the required corrections under PCT Article 11(2):	☐ not received:
5. International Searching Authority (if two or more are competent): ISA /	6. ☐ Transmittal of search copy delayed until search fee is paid

For International Bureau use only

Date of receipt of the record copy by the International Bureau:

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
30 May 2003 (30.05.2003)

PCT

(10) International Publication Number
WO 03/043445 A2

(51) International Patent Classification[7]: A23L 1/30, 1/29, 1/229

(21) International Application Number: PCT/EP02/13020

(22) International Filing Date:
20 November 2002 (20.11.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/331,987 21 November 2001 (21.11.2001) US
60/339,836 10 December 2001 (10.12.2001) US

(71) Applicant *(for all designated States except TM, US)*: GERBER PRODUCTS COMPANY [US/US]; 445 State Street, Fremont, MI 49413-0001 (US).

(71) Applicant *(for TM only)*: NOVARTIS NUTRITION AG [CH/CH]; Monbijoustrasse 118, CH-3001 Bern (CH).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: CARY, Julie [US/US]; 27 Willever Road, Asbury, NJ 08802 (US). COLETTA, Frances, Alexandria [US/US]; 233 East Elm Street, Fremont, MI 49412 (US). HOCKING, Douglas, Neal [US/US]; 15 Saxton Drive, Hackettstown, NJ 07840 (US). MOHS, Charles [US/US]; 7 Kahdena Road, Morristown, NJ 07960 (US).

(74) Agent: DIETZ, Jörg; Novartis AG, Corporate Intellectual Property, Patent & Trademark Department, CH-4002 Basel (CH).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LT, LU, LV, MA, MD, MK, MN, MX, NO, NZ, OM, PH, PL, PT, RO, RU, SE, SG, SI, SK, TJ, TM, TN, TR, TT, UA, US, UZ, VC, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR).

Published:
— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 03/043445 A2

(54) Title: BLENDED BABY FOODS

(57) Abstract: Processed baby foods are disclosed which are formulated with the following: A. Oils. Added oils to yield an acceptable ratio of the essential fatty acids, linoleic acid (LA) and α-linolenic acid (ALA), which are the precursors for the synthesis of two essential long chain polyunsaturated fatty acids: arachidonic acid (AA) and docosahexaenoic acid (DHA). B. Nucleotides. A blend of 3-6 nucleotides to yield a level of 3-6 mg/100 Kcal, which are associated with a number of biological processes, the most common being the potential to optimize the health of the immune and gastrointestinal systems of breast-fed infants and some infants and young children fed commercial infant formula with added nucleotides. C. Oils and Nucleotides. A combination of A and B.

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
GE/N-32262A/GER		
International application No.	International filing date *(day/month/year)*	(Earliest) Priority Date *(day/month/year)*
PCT/EP 02/ 13020	20/11/2002	21/11/2001
Applicant		
GERBER PRODUCTS COMPANY		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 7 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

   a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

   ☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

   b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing :

   ☐ contained in the international application in written form.

   ☐ filed together with the international application in computer readable form.

   ☐ furnished subsequently to this Authority in written form.

   ☐ furnished subsequently to this Authority in computer readble form.

   ☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

   ☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☒ Unity of invention is lacking (see Box II).

4. With regard to the title,

   ☐ the text is approved as submitted by the applicant.

   ☒ the text has been established by this Authority to read as follows:

   PROCESSED BABY FOOD WITH UNSATURATED FATTY ACIDS AND/OR NUCLEOTIDES

5. With regard to the abstract,

   ☒ the text is approved as submitted by the applicant.

   ☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

   ☐ as suggested by the applicant.

   ☐ because the applicant failed to suggest a figure.

   ☐ because this figure better characterizes the invention.

   ☒ None of the figures.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP 02/13020

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-5, 8, 9, 11

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.

International Application No. PCT/EP 02/13020

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-5,8,9,11

   a processed baby food comprising linoleic and linolenic acid at a ratio of 7 to 12

2. Claims: 6,7,10

   Claims 6,7 and 10, and further claims 8 and 11, relate to a processed baby food comprising nucleotides

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 02/13020

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A23L1/30 A23L1/29 A23L1/229

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A23L C07C A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data, PAJ, FSTA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 099 871 A (MARTINEZ SARAH B) 8 August 2000 (2000-08-08) example 1 ---	1-3,5
X	US 6 194 009 B1 (KAMAREL A REZA) 27 February 2001 (2001-02-27) claim 1; table 1B --- -/--	1,2,6,8, 9,11

[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
13 March 2003	13 05 03

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Groh, B

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Form PCT/ISA/210 (second sheet) (July 1992)

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CHEON S-H; HUH M-H; LEE Y-B; PARK J-S; SOHN H-S; CHUNG C-W: "Effect of dietary linoleate / alpha-linolenate balance on the brain lipid composition, reproductive outcome and behaviour of rats during their prenatal and postnatal development" BIOSCIENCE, BIOTECHNOLOGY AND BIOCHEMISTRY, vol. 64, no. 11, 2000, pages 2290-2297, XP009006979 page 2290; table 1 ---	1,9
X	US 5 601 860 A (LIEN ERIC L ET AL) 11 February 1997 (1997-02-11) claims 36,51; table 3B ---	1-3,9
X	US 4 614 663 A (RULE ARTHUR W T) 30 September 1986 (1986-09-30) claim 7; table 5 ---	1,2,5,9
A	SCHERZ H; SENSER F: "Food composition and nutrition tables, Human milk" 2000 , MEDPHARM SCIENTIFIC PUBL. , STUTTGART XP002234584 [composition tables of human milk] page 6 ---	1-11
A	N.N.: "Guidance note on the implementation of European Communities (Infant Formulae) Regulations 1998 and 2000, Schedule I: Essential composition of infant formulae" 2001 , FOOD SAFETY AUTHORITY OF IRELAND , DUBLIN XP002234585 ISBN 0-9539183-9-4, and see: www.fsai.ie page 41 -page 45 -----	1-11

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP 02/13020

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6099871 A	08-08-2000	CA 2177229 A1	02-12-1996
		AT 171846 T	15-10-1998
		AT 238690 T	15-05-2003
		BR 9602558 A	22-04-1998
		CZ 9601497 A3	11-12-1996
		DE 69600745 D1	12-11-1998
		DE 69600745 T2	06-05-1999
		DE 69627867 D1	05-06-2003
		DE 745330 T1	15-05-1997
		DK 745330 T3	15-02-1999
		EP 0745330 A1	04-12-1996
		EP 0846422 A1	10-06-1998
		ES 2094716 T1	01-02-1997
		GR 97300004 T1	28-02-1997
		PL 314546 A1	09-12-1996
US 6194009 B1	27-02-2001	US 6039985 A	21-03-2000
		US 5985339 A	16-11-1999
		AU 5480299 A	17-11-2000
		WO 0065934 A1	09-11-2000
		US 6030650 A	29-02-2000
		US 6093425 A	25-07-2000
US 5601860 A	11-02-1997	AT 178459 T	15-04-1999
		AU 680766 B2	07-08-1997
		AU 2513095 A	05-12-1995
		CA 2190127 A1	23-11-1995
		CN 1152856 A ,B	25-06-1997
		DE 69508935 D1	12-05-1999
		DE 69508935 T2	09-12-1999
		DK 758846 T3	18-10-1999
		EG 20674 A	30-11-1999
		EP 0758846 A1	26-02-1997
		ES 2130615 T3	01-07-1999
		FI 964533 A	12-11-1996
		GR 3030666 T3	29-10-1999
		IL 113666 A	16-08-1998
		JP 10500444 T	13-01-1998
		NZ 285655 A	22-08-1997
		SI 758846 T1	30-06-1999
		WO 9531110 A1	23-11-1995
		ZA 9503702 A	08-11-1996
		AT 129007 T	15-10-1995
		AU 646309 B2	17-02-1994
		AU 8825591 A	04-06-1992
		BR 9105195 A	21-07-1992
		CA 2056058 A1	31-05-1992
		CY 2056 A	30-04-1998
		DE 69113755 D1	16-11-1995
		DE 69113755 T2	04-04-1996
		DK 488800 T3	22-01-1996
		EG 19138 A	29-09-1994
		EP 0488800 A2	03-06-1992
		ES 2078461 T3	16-12-1995
		FI 915590 A	31-05-1992
		GB 2250749 A ,B	17-06-1992
		GR 3018273 T3	29-02-1996
		HK 1000031 A1	17-10-1997

INTERNATI NAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP 02/13020

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5601860 A		HU 59572 A2	29-06-1992
		HU 9500454 A3	28-09-1995
		IE 914172 A1	03-06-1992
		IL 100072 A	30-03-1995
		JP 3131477 B2	31-01-2001
		JP 4287637 A	13-10-1992
		KR 192643 B1	15-06-1999
		MX 9102253 A1	01-06-1992
		NZ 240768 A	26-05-1994
		PT 99630 A ,B	30-11-1992
		TR 25748 A	01-09-1993
		ZA 9109194 A	21-05-1993
US 4614663 A	30-09-1986	AT 29366 T	15-09-1987
		AU 559662 B2	19-03-1987
		AU 2917484 A	03-01-1985
		CA 1215573 A1	23-12-1986
		DE 3465868 D1	15-10-1987
		EG 17042 A	30-12-1990
		EP 0129990 A2	02-01-1985
		ES 8606987 A1	01-11-1986
		FI 842476 A ,B,	25-12-1984
		GB 2142340 A ,B	16-01-1985
		GR 82024 A1	12-12-1984
		HK 53390 A	27-07-1990
		IE 55299 B1	01-08-1990
		IN 158383 A1	01-11-1986
		JP 2083994 C	23-08-1996
		JP 7087744 B	27-09-1995
		JP 60041442 A	05-03-1985
		KR 9105258 B1	24-07-1991
		MX 167725 B	07-04-1993
		NZ 208398 A	31-07-1987
		PH 21706 A	27-01-1988
		PT 78758 A ,B	01-07-1984
		TR 22550 A	22-10-1987
		US 4721626 A	26-01-1988
		ZA 8404375 A	29-01-1986

The demand must be filed directly with the competent International Preliminary Examining Authority or, if two or more Authorities are competent, with the one chosen by the applicant. The full name or two-letter code of that Authority may be indicated by the applicant on the line below:

IPEA/ _____

PCT

CHAPTER II

DEMAND

under Article 31 of the Patent Cooperation Treaty:
The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty and hereby elects all eligible States (except where otherwise indicated).

For International Preliminary Examining Authority use only

Identification of IPEA	Date of receipt of DEMAND

Box No. I IDENTIFICATION OF THE INTERNATIONAL APPLICATION

Applicant's or agent's file reference: B-32262A/GER

International application No.	International filing date *(day/month/year)*	(Earliest) Priority date *(day/month/year)*
PCT/EP 02/13020	20 November 2002 (20.11.02)	21 November 2001 (21.11.01)

Title of invention: BLENDED BABY FOODS

Box No. II APPLICANT(S)

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

Gerber Products Company
445, State Street
Fremont, MI 49413-0001
USA

Telephone No.: +4161 324 11 11
Facsimile No.: +4161 322 75 32
Teleprinter No.:
Applicant's registration No. with the Office:

State *(that is, country)* of nationality: US
State *(that is, country)* of residence: US

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

Novartis Nutrition AG
Monbijoustrasse 118
3001 Bern
CH

State *(that is, country)* of nationality: CH
State *(that is, country)* of residence: CH

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

CARY, Julie
27 Willever Road
Asbury, NJ 08802
US

State *(that is, country)* of nationality: US
State *(that is, country)* of residence: US

[X] Further applicants are indicated on a continuation sheet.

International application No.
PCT/EP 02/13020

Continuation of Box No. II APPLICANT(S)

If none of the following sub-boxes is used, this sheet should not be included in the demand.

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

COLETTA, Frances Alexandria
233 East Elm Street
Fremont, MI 49412
US

State *(that is, country)* of nationality:	State *(that is, country)* of residence:
US	US

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

HOCKING, Douglas Neal
15 Saxton Drive
Hackettstown, NJ 07840
US

State *(that is, country)* of nationality:	State *(that is, country)* of residence:
US	US

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

MOHS, Charles
7 Kahdena Road
Morristown, NJ 07960
US

State *(that is, country)* of nationality:	State *(that is, country)* of residence:
US	US

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

State *(that is, country)* of nationality:	State *(that is, country)* of residence:

☐ Further applicants are indicated on another continuation sheet.

Sheet No. 3

International application No.
PCT/EP 02/13020

Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The following person is ☒ agent ☐ common representative

and ☒ has been appointed earlier and represents the applicant(s) also for international preliminary examination.

☐ is hereby appointed and any earlier appointment of (an) agent(s)/common representative is hereby revoked.

☐ is hereby appointed, specifically for the procedure before the International Preliminary Examining Authority, in addition to the agent(s)/common representative appointed earlier.

Name and address: *(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)*

DIETZ, Jörg
Novartis AG
Corporate Intellectual Property
Patent & Trademark Department
4002 Basel
CH

Telephone No.
+4161 324 11 11

Facsimile No.
+4161 322 75 32

Teleprinter No.

Agent's registration No. with the Office

☐ **Address for correspondence:** Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION

Statement concerning amendments:*

1. The applicant wishes the international preliminary examination to start on the basis of:

☒ the international application as originally filed

the description ☐ as originally filed
☐ as amended under Article 34

the claims ☐ as originally filed
☐ as amended under Article 19 (together with any accompanying statement)
☐ as amended under Article 34

the drawings ☐ as originally filed
☐ as amended under Article 34

2. ☐ The applicant wishes any amendment to the claims under Article 19 to be considered as reversed.

3. ☒ The applicant wishes the start of the international preliminary examination to be postponed until the expiration of 20 months from the priority date unless the International Preliminary Examining Authority receives a copy of any amendments made under Article 19 or a notice from the applicant that he does not wish to make such amendments (Rule 69.1(d)). *(This check-box may be marked only where the time limit under Article 19 has not yet expired.)*

* Where no check-box is marked, international preliminary examination will start on the basis of the international application as originally filed or, where a copy of amendments to the claims under Article 19 and/or amendments of the international application under Article 34 are received by the International Preliminary Examining Authority before it has begun to draw up a written opinion or the international preliminary examination report, as so amended.

Language for the purposes of international preliminary examination: English

☒ which is the language in which the international application was filed.

☐ which is the language of a translation furnished for the purposes of international search.

☒ which is the language of publication of the international application.

☐ which is the language of the translation (to be) furnished for the purposes of international preliminary examination.

Box No. V ELECTION OF STATES

The applicant hereby elects all eligible States *(that is, all States which have been designated and which are bound by Chapter II of the PCT)*

excluding the following States which the applicant wishes not to elect:

International application No.
PCT/EP 02/13020

Box No. VI CHECK LIST

The demand is accompanied by the following elements, in the language referred to in Box No. IV, for the purposes of international preliminary examination:			For International Preliminary Examining Authority use only: received	not received
1. translation of international application	:	sheets	☐	☐
2. amendments under Article 34	:	sheets	☐	☐
3. copy (or, where required, translation) of amendments under Article 19	:	sheets	☐	☐
4. copy (or, where required, translation) of statement under Article 19	:	sheets	☐	☐
5. letter	:	sheets	☐	☐
6. other *(specify)*	:	sheets	☐	☐

The demand is also accompanied by the item(s) marked below:

1. ☒ fee calculation sheet
2. ☐ original separate power of attorney
3. ☐ original general power of attorney
4. ☐ copy of general power of attorney; reference number, if any:
5. ☐ statement explaining lack of signature
6. ☐ sequence listings in computer readable form
7. ☐ tables in computer readable form related to sequence listings
8. ☐ other *(specify)*:

Box No. VII SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the demand).

In the name of the applicants
The representative

21.05.2003

DIETZ, Jörg, AV 41217 + AV 36893

For International Preliminary Examining Authority use only

1. Date of actual receipt of DEMAND:

2. Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):

3. ☐ The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply. ☐ The applicant has been informed accordingly.

4. ☐ The date of receipt of the demand is WITHIN the period of 19 months from the priority date as extended by virtue of Rule 80.5.

5. ☐ Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82.

For International Bureau use only

Demand received from IPEA on:

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference B-32262A/GER	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/EP 02/13020	International filing date *(day/month/year)* 20.11.2002	Priority date *(day/month/year)* 21.11.2001
International Patent Classification (IPC) or both national classification and IPC A23L1/30		
Applicant GERBER PRODUCTS COMPANY et al.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 7 sheets, including this cover sheet.

   ☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

   These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

   - I ☒ Basis of the opinion
   - II ☐ Priority
   - III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
   - IV ☒ Lack of unity of invention
   - V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
   - VI ☐ Certain documents cited
   - VII ☐ Certain defects in the international application
   - VIII ☐ Certain observations on the international application

Date of submission of the demand	Date of completion of this report
24.05.2003	30.01.2004
Name and mailing address of the international preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized Officer Groh, B Telephone No. +49 89 2399-7855

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP 02/13020

I. Basis of the report

1. With regard to the **elements** of the international application *(Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17))*:

Description, Pages

1-15 as originally filed

Claims, Numbers

1-11 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

   These elements were available or furnished to this Authority in the following language: , which is:

   - ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
   - ☐ the language of publication of the international application (under Rule 48.3(b)).
   - ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

   - ☐ contained in the international application in written form.
   - ☐ filed together with the international application in computer readable form.
   - ☐ furnished subsequently to this Authority in written form.
   - ☐ furnished subsequently to this Authority in computer readable form.
   - ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
   - ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

   - ☐ the description, pages:
   - ☐ the claims, Nos.:
   - ☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

   (Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP 02/13020

IV. Lack of unity of invention

1. In response to the invitation to restrict or pay additional fees, the applicant has:

   ☐ restricted the claims.

   ☐ paid additional fees.

   ☐ paid additional fees under protest.

   ☒ neither restricted nor paid additional fees.

2. ☐ This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.

3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is

   ☐ complied with.

   ☒ not complied with for the following reasons:

   see separate sheet

4. Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:

   ☐ all parts.

   ☒ the parts relating to claims Nos. 1-5,8,9,11 .

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes:	Claims	4
	No:	Claims	1-3,5,8,9,11
Inventive step (IS)	Yes:	Claims	
	No:	Claims	1-5,8,9,11
Industrial applicability (IA)	Yes:	Claims	1-5,8,9,11
	No:	Claims	

2. Citations and explanations

   see separate sheet

INTERNATIONAL PRELIMINARY EXAMINATION REPORT - SEPARATE SHEET International application No. PCT/EP02/13020

Concerning the applicants communication:

After generation of the automatic 408 communication (dated 25.06.03) the applicant requested reconsideration of those objections cited in the search report and the automatic 408 (applicant's communication dated Aug. 26, 2003).

The examiner considered the applicants opinion (communication dated Aug. 26, 2003): The examiner can not share the applicant's opinion about the essential difference between infant food and baby food. The terms infant and baby are often used interchangeably.

Even if there was a defined and essential difference in the terms, and in both, the relevant prior art and the present application that difference would be important, the infant food products disclosed by the prior art would still be suitable for babies age 6 months or older.

The objections are maintained, they are presented in detail here below:

Reference is made to the following documents:

D1: US 6 099 871 (Martinez), Aug.8, 2000.
D2: Food composition and nutrition tables, 2000, p. 6.
D3: N.N. Guidance note Infant Formula (www.fsai.ie), p. 41 (point 3.5)
D4: US 6 194 009 (KAMAREL), 27.02.2001.
D5: XP 9006979 (CHEON)
D6: US 5 601 860 (LIEN), 11.02.97
D7: US 4 614 663 (RULE), 30.09.86

Re Item IV. Unity

The present application does not fulfill Rule 13 PCT, because it contains several inventions: The separate inventions are:

A. A processed baby food comprising 1,5 to 3 % of a blend of oils comprising linoleic acid (LA) and alpha-linolenic acid (a-LNA), where the ratio of LA to a-LNA is between 7 and 12.

B. A processed baby food comprising 3 to 6 nucleotides at a level of 3-6 mg / 100 kcal, selected from the group consisting from adenosine, cytidine, guanosine, uridine, inosine and thymidine.

The single general concept of the present application is a processed baby food with defined nutritive properties. Processed baby food with defined nutritive properties is state of the art.

Only the first invention (A), regarding claims 1-5,8,9 and 11, was searched, and only the first invention can be examined in this international preliminary examination report.

Re Item V
Novelty

Claims 1 to 3 and 5 of the present application are not novel (Art. 33 (2) PCT) over D1. Example 1 of D1 is about an infant formula with 4.4 g fat per 100 kcal [*note*: the caloric amount of the ingredients in example 1 represent 100 kilocal, *not* 100 cal, as stated obviously by mistake in D1], 4.4 g fat per 100 kcal correspond to approximately 3,0 g of fat per 100g formula, assuming a caloric load of 69 kcal per 100 g (value for human milk, see D2). Example 1 further contains linoleic acid (0,72 g) and linolenic acid (75 mg), the ratio LA to LNA is 9,6.
Furthermore, it is specified that the fat in example 1 of D1 is a blend of palm, soy, coconut and sunflower oil (see footnote 2).

Additionally, claims 1 and 2 of the present application are regarded to be not novel over D4. In Table 1B of D4 an infant formula is disclosed with 4,4 to 6,4 g fat per 100 kcal [4,4 g fat correspond to approx. 3,0 g of fat per 100g formula, assuming a caloric load of 69 kcal per 100 g (value for human milk, see D2)] and a LA to a-LNA ratio of 6 to 16.

Furthermore, that infant formula of D4 comprises a nucleotide premix with 0.032 g of nucleotides per 1 litre (see Table 10-continued in column 24), that concentration is

equivalent to approx. 3,2 mg Nucleotides per 100 g formula (assuming one litre formula corresponds to 1000 grams, which is approx. the density of water or milk).
The nucleotides are cytidine, uridine, guanosine and adenosine. The infant formulas of D4 are intended to be used to supplement the diet of infants. The age range is not specified, however the infant formula is obviously used after an initial new-born period up to when regular food is usually given to an infant. Consequently, claims 8 and 11 are not novel over example 1B of D4.

The commercial infant formula 'LA4' (see Table 1) of D5 contains 4,4 g fat (soy and palm oil) per 100 kcal, which corresponds to 3,0 g fat [4,4 g fat correspond to approx. 3,0 g of fat per 100g formula, assuming a caloric load of 69 kcal per 100 g (value for human milk, see D2)]. The LA to a-LNA ratio is 7,67 (see Table 1). Furthermore, it is stated that arachidonic acid (AA) and docosahexaenoic acid (DHA) are synthesized from their respective precursors LA and a-LNA (see page 2290, middle of right column). The infant formulas of D5 are intended to be used to supplement the diet of infants. Therefor, claims 1 and 9 are considered to be not novel over D5.

An other novelty destroying document for claims 1-3 and 9 of the present application is D6: It is about infant formulas with 2,2 to 6,0 g of fat per 100 ml formula (see column 11, line 46) and a LA to a-LNA ratio of 4 to 9 (see claim 36).

Furthermore, claims 1, 2, 9 of the present application are not novel over example 1 of D7. D7 is about food products for infant nutrition with a fat content between 1 and 6 g per 100 ml formula and a LA to a-LNA ratio of 8 (see example 1, table V, blend 'D').

Inventive Step, concerning claim 4

The ratio between LA and a-LNA is generally known and recommended to be between 5 and 15 in infant formula (see D3).
Example 1 of D1 specifies the ratio between LA and a-LNA to be 9,6. The claimed value is 9,35.

No surprising or non-obvious effect is expected to result from a relative small decrease of the LA and a-LNA ratio from 9,6 (prior art) to 9,35 (claimed).

The present application does not disclose any unexpected, surprising or new effect based on the claimed value of 9,35 relative to the value of the prior art.

Therefor the ratio between LA and a-LNA of 9,35 is considered to not involve an inventive step over the prior art.

Note:
No examination carried out concerning claims 6,7 and 10, due to lack of unity.

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Patent Specialist

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Total pages: 2

Your Ref:	Our Ref:
August 26, 2003	NI CIP

International Application No. PCT/EP02/13020
Response to Written Opinion
Our Case: B-32262A/GER
In the name of Gerber Products Company

Dear Sir

With reference to the Written Opinion, dated June 26, 2003, Applicant notes that Examiner objected novelty and/or inventiveness over the prior art documents cited X in the international search report. Applicant respectfully requests reconsideration and withdrawal of these objections in light of the remarks herein.

US 6,099,871 discloses infant formula compositions containing thickening agents useful for treating regurgitation in infants. Infant formula refer to formula in which "the calories from protein, fat and carbohydrate are in proportions similar to human milk" (column 3, lines 15 to 18). Example 1 relates to an infant formula powder, containing about 20 % by weight of a fat blend.
As defined in the Applicant's specification, infant formula compositions are high-fat and nutritionally complete (like breast milk), i.e. may provide all the nutrients, energy and fluids required by infants for growth and development. The infant formula are adapted for infants up to about 6 months and may be consumed in decreasing amounts through the age of 12 months (page 4, paragraph 5). These compositions differ from baby foods, which are solid-containing foods for the children who are transitioning to solid adult food, i.e. infants and young children from the age of about 6 months up to 2 years of age or even older. The baby foods are formulated for the specific nutritional needs of these children and are adapted to their feeding skills. In particular the baby foods comprise particulates whose size depends on the age of the children to be fed (page 5, last paragraph to page 6, paragraph 1).
US 6,099,871 does not refer to baby foods, let alone baby foods comprising a 1.5 to 3% by weight of blend of oils, as claimed in the Applicant's composition claim 1.

US 6,194,009 describes refrigeration-shelf-stable infant formulas which have been prepared using pasteurization or ultra-pasteurization processes. US 6,194,009 is restricted to infant formula, also called "humanized milk" , i.e. formula "designated to mimic the formulation of human milk as much as possible" (column 1, lines 30 to 32), and which "satisfies the nutrients requirements of an infant by being a substitute for human milk" (column 7, lines 27 to 30; table 1B). US 6,194,009 does not include any reference to a baby food. In particular this document does not describe a baby food comprising a 1.5 to 3% of blend of oils comprising linoleic acid (LA) and alpha-linolenic acid (ALA),

in an LA/ALA ratio of 7 to 12/1, all percentages wt/wt, as claimed in the Applicant composition claim 1.

Cheon et al refers to a study of the effects on rats of dietary linoleate/alpha-linolenate balance in particular on the brain lipid composition during prenatal and postnatal period. This document discloses liquid diets formulated according to the composition of a soy-based commercial infant formula (page 2290, column 1, paragraph 3, lines 1 to 3 and table 1). Nowhere in Cheon et al there is a disclosure of a baby food comprising a 1.5 to 3% of blend of oils, all percentages wt/wt, as claimed in Applicant's claim 1.

US 5,601,860 discloses corandomized fat compositions for nutritionally complete food products adapted for human infant nutrition such as infant formula compositions. The fat compositions described in US 5,601,860 result from the corandomization of at least two oils (e.g. palmitic acid and lauric acid oils), i.e. from the randomly interesterification between the fatty acids of the oils. The corandomization alters the chemical makeup of the native oils and results in a mixture of oils which have chemical structures as well as biochemical and nutritional properties different from the ones of the native oils (column 9, lines 25 to 34). Therefore US 5,601,860 does not disclose food products comprising a blend of native oils.
In addition US 5,601,860 does not mention a baby food, and does not specifically describe a baby food comprising linoleic acid and alpha-linolenic acid, in an LA/ALA ratio of 7 to 12/1, as claimed in the Applicant composition claim 1.

US 4,614,663 relates to food products adapted for human infant nutrition containing an oil mixture. Example 2 describes a formula suitable for younger infants who receive the formula as the only source of food (i.e. an infant formula) comprising 3.6 wt% fat blend comprising linoleic acid and alpha-linolenic acid in an LA/ALA ratio of 8 (table V).
Applicant claims that this document does not specifically disclose a baby food comprising a 1.5 to 3% of blend of oils comprising linoleic acid and alpha-linolenic acid, in an LA/ALA ratio of 7 to 12/1, all percentages wt/wt, and is not relevant to Applicant's invention as defined in claim 1.

In view of the above, Applicant submits that composition claims 1 to 5, and 8 are novel over US 6,099,871, US 6,194,009, Cheon et al, US 5,601,860 and US 4,614,663. Further, none of the above documents discloses methods as claimed in any one of claims 9 and 11.

Applicant submits there is no motivation in any of the cited documents, either taken alone or in combination, to provide a composition or method according to the invention as presently claimed. In these circumstances, the subject matter of claims 1 to 5, 8, 9 and 11 meets the criteria for a patentable invention.

In view of the foregoing Applicant requests favorable reconsideration of the claims. In the event that the Examiner has further objections, Applicant requests a further Written Opinion before establishing the IPER.

Yours very truly

In the name of Gerber Products Company

C. Bohmann

Dr. Christine Bohmann
Professional Representative,
GA No. 41217

26.08.2003
B -32262A/GER
Christine Bohmann

VT
PCT
EP02/13020

Corporate Intellectual Property
27. Juni 2003
APPL. | M/D | F/L | PS | Copy:

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT

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To:
Dietz, Jörg
NOVARTIS AG
Corporate Intellectual Property
Patent & Trademark Department
CH-4002 Basel
SUISSE

WRITTEN OPINION

(PCT Rule 66)

Date of mailing *(day/month/year)*	25/06/2003
Applicant's or agent's file reference	B-32262A/GER
REPLY DUE	within 2 / 00 months/days from the above date of mailing
International application No.	PCT/EP 02/ 13020
International filing date *(day/month/year)*	20/11/2002
Priority date *(day/month/year)*	21/11/2001
International Patent Classification (IPC) or both national classification and IPC	A23L1/30
Applicant	GERBER PRODUCTS COMPANY et al.

1. This written opinion is the first drawn up by this International Preliminary Examining Authority.

2. This opinion contains indications relating to the following items:

- I [X] Basis of the opinion
- II [ ] Priority
- III [X] Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV [ ] Lack of unity of invention
- V [X] Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI [ ] Certain documents cited
- VII [ ] Certain defects in the international application.
- VIII [ ] Certain observations on the international application

3. The applicant is hereby invited to reply to this opinion.

When? See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension, see Rule 66.2(d).

How? By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.

Also For an additional opportunity to submit amendments, see Rule 66.4.
For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4*bis*.
For an informal communication with the examiner, see Rule 66.6.

If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.

4. The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 21/03/2004

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Fax: (+49-89) 2399-4465

Authorized officer
Examiner
Formalities officer
(incl. extension of time limits)
Tel. (+49-89) 2399 2828

WRITTEN OPINION International application No PCT/EP 02/ 13020

I. Basis of the opinion

The basis of this written opinion is the application as originally filed.

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The question of whether the claimed invention appears to be novel, to involve an inventive step, or to be industrially applicable has not been and will not be the subject of the international preliminary examination in respect of the claims which have not been searched (Article 17(2)(a) or (3) and Rule 66.1(e) PCT; see also international search report).

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability

1. To the extent that the international preliminary examination has been carried out (see item III above), the following is pointed out: i.e. for cl. 1-5, 8, 9 II

2. In light of the documents cited in the international search report, it is considered that the invention as defined in at least some of the claims, which have been the subject of an international search report, does not appear to meet the criteria mentioned in Article 33(1) PCT, i.e. does not appear to be novel and/or to involve an inventive step (see international search report, in particular the documents cited X and/or Y and corresponding claim references).

3. If amendments are filed, the applicant should comply with the requirements of Rule 66.8 PCT and indicate the basis of the amendments in the documents of the application as originally filed (Article 34 (2) (b) PCT) otherwise these amendments may not be taken into consideration for the establishment of the international preliminary examination report. The attention of the applicant is drawn to the fact that if the application contains an unnecessary plurality of independent claims, no examination of any of the claims will be carried out.

NB: Should the applicant decide to request detailed substantive examination, then an international preliminary examination report will normally be established directly. Exceptionally the examiner may draw up a second written opinion, should this be explicitly requested.

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NOVARTIS

International Bureau of WIPO
PCT Examination Section
34, chemin des Colombettes
1211 Genève 20

Your Ref:	Our Ref:
April 20, 2004	NI CIP

Case: B-32262A/GER
International Application No. PCT/EP 02/13020

Ladies and Gentlemen

Please be informed of a change of address of the following inventor and applicant (for the United States of America only):

CARY, Julie
new address: 4344 Fairfax Avenue, Dallas, TX 75205, USA

HOCKING, Douglas Neal
new address: 6700 Silver Maple Lane, Rockford MI 49341, USA

Yours very truly

In the name of the applicant
The representative

DIETZ, Jörg, AV 41217 + AV 36893

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PATENT COOPERATION TREATY

PCT

From the INTERNATIONAL BUREAU

To:

DIETZ, Jörg
Novartis AG
Corporate Intellectual Property
Patent & Trademark Department
CH-4002 Basel
Switzerland

NOTIFICATION OF THE RECORDING OF A CHANGE

(PCT Rule 92bis.1 and Administrative Instructions, Section 422)

Date of mailing (day/month/year)	
06 May 2004 (06.05.2004)	
Applicant's or agent's file reference	**IMPORTANT NOTIFICATION**
GE/N-32262A/GER	
International application No.	**International filing date (day/month/year)**
PCT/EP2002/013020	20 November 2002 (20.11.2002)

1. The following indications appeared on record concerning:

[X] the applicant [X] the inventor [ ] the agent [ ] the common representative

Name and Address	State of Nationality	State of Residence
CARY, Julie 27 Willever Road Asbury, NJ 08802 United States of America	US	US
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

[ ] the person [ ] the name [X] the address [ ] the nationality [ ] the residence

Name and Address	State of Nationality	State of Residence
CARY, Julie 4344 Fairfax Avenue Dallas, TX 75205 United States of America	US	US
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

[X] the receiving Office
[ ] the International Searching Authority
[X] the International Preliminary Examining Authority
[ ] the designated Offices concerned
[X] the elected Offices concerned
[ ] other:

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Rosana REYES (Fax : 338 89 75)
Facsimile No. (41-22) 338.89.75	Telephone No. (41-22) 338 8471

PATENT COOPERATION TREATY

PCT

From the INTERNATIONAL BUREAU

To:

DIETZ, Jörg
Novartis AG
Corporate Intellectual Property
Patent & Trademark Department
CH-4002 Basel
Switzerland

NOTIFICATION OF THE RECORDING OF A CHANGE

(PCT Rule 92bis.1 and Administrative Instructions, Section 422)

Date of mailing (day/month/year): 06 May 2004 (06.05.2004)	
Applicant's or agent's file reference: GE/N-32262A/GER	IMPORTANT NOTIFICATION
International application No.: PCT/EP2002/013020	International filing date (day/month/year): 20 November 2002 (20.11.2002)

1. The following indications appeared on record concerning:

[X] the applicant [X] the inventor [ ] the agent [ ] the common representative

Name and Address	State of Nationality	State of Residence
HOCKING, Douglas, Neal 15 Saxton Drive Hackettstown, NJ 07840 United States of America	US	US
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

[ ] the person [ ] the name [X] the address [ ] the nationality [ ] the residence

Name and Address	State of Nationality	State of Residence
HOCKING, Douglas, Neal 6700 Silver Maple Lane Rockford, MI 49341 United States of America	US	US
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

[X] the receiving Office
[ ] the International Searching Authority
[X] the International Preliminary Examining Authority
[ ] the designated Offices concerned
[X] the elected Offices concerned
[ ] other:

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Rosana REYES (Fax : 338 89 75)
Facsimile No. (41-22) 338.89.75	Telephone No. (41-22) 338 8471

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SUPERINDUSTRIA Y COMERCIO
Radicacion : 04057488 00000000 Folios: 98
Fecha (AAAA): 2004-06-18 16:01:22
Tramite : 011 PCT-PATENT 379 FASE NACI 411 PRESENTAC
Dependencia: 2020 DIVISION DE NUEVAS CREACIONES

REQUISITOS NECESARIOS PARA PRESENTACION Y AGILIZACION DEL TRAMITE

	USUARIO	RADICADOR
PATENTE DE INVENCIÓN ✓ MODELO DE UTILIDAD	( )	( )
- Indicación de que se solicita la concesión de una patente.	( )	(✓)
- Datos de identificación del solicitante o de la persona que se presenta la solicitud.	( )	(✓)
- Descripción de la invención.	( )	(✓)
- Dibujos de ser estos pertinentes.	( )	(✓)
- Comprobante de Pago de las tasas establecidas.		
COMPLETA ( ) INCOMPLETA	( )	( )
DISEÑO INDUSTRIAL ( )		
- Indicación de que se solicita el registro de Diseño Industrial	( )	( )
- Datos de identificación del solicitante o de la persona que presenta	( )	( )
- la solicitud.		
- Representación gráfica o fotográfica del Diseño Industrial o muestra del Material que incorpora el diseño.	( )	( )
Comprobante de pago de las tasas establecidas	( )	( )
COMPLETA ( ) INCOMPLETA	( )	( )
ESQUEMA DE TRAZADO ( )		
- Indicación de que solicita el registro de un Esquema de trazado.	( )	( )
- Datos de identificación del solicitante o de la persona que presenta La solicitud.	( )	( )
Representación gráfica del esquema de trazado	( )	( )
Comprobante de pago de las tasas establecidas.	( )	( )
COMPLETA ( ) INCOMPLETA	( )	( )

Firma Responsable: Claudia M. Neva

Fecha:

Folio 100

2020
Bogotá D C

Doctor(a)
JIMENA ESCOBAR URIBE.
Apoderado(a)

REFERENCIA:	Radicación N°	04-57488
	Solicitud Internacional	PCT/EP02/13020
	Fecha inicio fase nacional	21/06/2004
	Trámite	011
	Evento	379
	Actuación	416
	Oficio N°	1131
	Folios	001

Teniendo en cuenta que la solicitud de privilegio de patente que se tramita bajo el expediente indicado en la referencia, reúne los requisitos de forma establecidos en los artículos 26 y 27 de la Decisión 486, de la Comisión de la Comunidad Andina, y en las demás disposiciones vigentes sobre la materia, se envía el extracto de la solicitud a la oficina de comunicaciones para efecto de su publicación en la Gaceta de Propiedad Industrial, conforme lo establece el artículo 40 de la Decisión 486.

Cúmplase
Dado en Bogotá D C,

ALIX CARMENZA CÉSPEDES DE VERGEL
Jefe División de Nuevas Creaciones.

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