

FORMULARIO ÚNICO DE SOLICITUD DE PATENTE
PCT
ENTRADA EN FASE NACIONAL

1) SOLICITUD DE:			
☒ Patente de invención		☐ Patente de Modelo de Utilidad	
☐ Capítulo I.		☒ Capítulo II.	
2) SOLICITANTE (71)	Nombre: POKON & CRYSL B.V. Dirección: Goolmeer 7 NL-1411 DD Naarden, The Netherlands Nacionalidad o domicilio: Naarden, The Netherlands Lugar de constitución: Naarden, The Netherlands		IDENTIFICACIÓN C.C. ☐ NIT: ☐ C.E. ☐ OTRO ☐ Cual _____ NÚMERO _____
	Teléfono: _____ Fax: _____ E. Mail: _____		
3) REPRESENTANTE O APODERADO	Nombre: DILIA MARÍA RODRÍGUEZ D'ALEMAN Dirección: Carrera 11 N°. 93-43 Of. 404 Santafé de Bogotá D.C. Teléfono: 6350835 Fax: 6350824 E. Mail: clarkemodet@clarkemodet.com.co		IDENTIFICACIÓN C.C. ☒ NIT: ☐ C.E. ☐ OTRO ☐ NÚMERO: 41.654.882 TP: 20824 CSJ
	4) INVENTOR (ES) (72) Nombre: 1) VAN DER SCHAAF, Tjerk Pier; 2) GROENEWOUD, Ewald; 3) HERMAN, Paul Thomas Dirk Dirección: 1) Volendamstraat 14 NL-8244 DT Lelystad, The Netherlands; 2) Kropaar 3 NL-1273 AL HUIZEN, The Netherlands; 3) Zonnebloempad 8 NL-8255 JB Swifterbant, The Netherlands Nacionalidad o Domicilio: Todos los anteriores, Alemanes		
5) PCT (88) Solicitud Internacional No. PCT/NL01/00446 Fecha: Junio 13, 2001 Publicación Internacional No. WO 01/96206 A 1 Fecha: Diciembre 20, 2001			
6) Título (54) PAQUETE QUE COMPRENDE MATERIALES DE ALIMENTACIÓN PARA FLORES CORTADAS			
7) Clasificación Internacional (51) B65D 81/00, A01G 5/06			
8) PRIORIDAD SI ☒ NO ☐	33) País de Origen	(32) Fecha	(31) Número de Solicitud
	THE NETHERLANDS	Junio 13, 2000	1015423
9) Comprobante de pago N°. Fecha			
Instrucciones para el diligenciamiento del presente formulario. Ver reverso de esta página			

10)

ANEXOS

☒ Comprobante de pago de la tasa de presentación de la solicitud

☐ Comprobante de pago por reivindicación de prioridad

☐ Documento que acredite la existencia y representación legal cuando el solicitante sea persona Jurídica

☐ Poderes, si fuera el caso

☐ Documento de cesión del inventor al solicitante o a su causante

☐ Declaraciones

☐ Copia de la solicitud Internacional. (Resumen, descripción, reivindicación, Dibujos).

☒ Traducción de la solicitud internacional al castellano. (Resumen, descripción, reivindicación, Dibujos)

☐ Copia del examen preliminar efectuado por la IPEA

☐ De ser el caso, copia del contrato de acceso

☐ De ser el caso, documento que acredite la licencia o autorización de uso de conocimientos tradicionales de las comunidades indígenas

☐ De ser el caso, certificado de depósito del material biológico

☐ Arte final 12 x 12 y 6 x 6 cm

☐ De ser el caso, información sobre otras solicitudes de patente o títulos obtenidos en el extranjero por el mismo titular o su causante, relacionados parcial o totalmente con la invención de esta solicitud.

☐ Otros:

1. Publicación internacional WO 01/98206 A1

2. Reporte Internacional de Búsqueda

3. Notificación de transmisión del examen preliminar

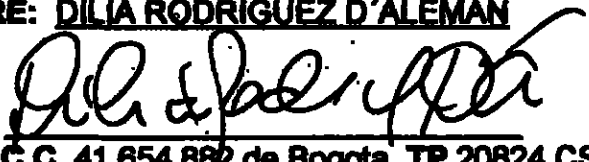
4. Reporte del examen preliminar

5. Solicitud PCT

11) FIGURA CARACTERÍSTICA:

12) Solicitud concesión de la patente,

NOMBRE: DILIA RODRÍGUEZ D'ALEMAN

FIRMA: 

C.C. 41.654.882 de Bogotá TP 20824 CSJ

Instrucciones para el diligenciamiento del presente formulario. Ver reverso de esta pagina

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PAQUETE QUE COMPRENDE MATERIALES DE ALIMENTACION PARA FLORES

CORTADAS

CAMPO DE LA INVENCION

5 La presente invención se relaciona con una bolsita,
en particular un montaje de bolsita que comprende:

- una bolsa cerrada la cual está formada de
papel filtro permeable al agua y
- una sustancia sólida la cual está contenida en
10 la bolsa y es al menos parcialmente soluble en agua.

ANTECEDENTES DE LA INVENCION

Un montaje de bolsita de este tipo es conocido. Se
podría pensar, por ejemplo, en una bolsita de té, la cual
15 está formada de un papel filtro, también conocido como papel
para bolsas de té, en la cual cierta cantidad de hojas de té
opcionalmente trituradas está empacada. Una bolsa de té de
este tipo es, como se sabe, proporcionada generalmente con un
hilo, el cual puede ser utilizado para colgar esta en una
20 taza de té u olla de té, de modo que, una vez que el té ha
sido preparado lo suficiente, el hilo puede ser utilizado
para remover esta nuevamente de la taza u olla de té.

SUMARIO DE LA INVENCION

25 Un objeto de la presente invención es proporcionar
una preparación para flores cortadas en una forma de
administración que es tal que es segura y puede verificarse

que ha sido administrada una dosis específica al agua en la cual las flores cortadas permanezcan.

De acuerdo a la invención, este objeto es logrado por el hecho de que, en la bolsita del tipo descrita en la introducción, la sustancia sólida soluble en agua comprende una preparación de flores cortadas. Una bolsita de este tipo puede ser colocada en el agua en un recipiente que contenga flores cortadas que permanezcan en el agua, después de lo cual el agua puede entrar a la bolsa vía el papel filtro, de modo que la preparación se disuelva, y entonces lleve la preparación hacia afuera de la bolsa en forma disuelta. Puesto que la bolsa está cerrada, la administración de una bolsa asegura que sea administrada una dosis específica. Además, la bolsa seguirá presente aún después de que esta haya sido administrada al agua, lo cual hace fácil verificar que la preparación ha sido administrada. Por lo tanto, es posible tanto para el comprador, como para el florista o consumidor, ver que las flores cortadas que han sido compradas están en agua que ha sido tratada apropiadamente, y también es posible establecer un cuerpo de inspección, en una forma simple y eficiente, de que ha sido administrada una dosis específica a flores cortadas. Un cuerpo de inspección de este tipo puede, por ejemplo, ser un cuerpo que verifique la cantidad de productos en favor de una asociación profesional de comerciantes de flores cortadas, pero también puede ser, por ejemplo, un distribuidor o comprador de flores cortadas que desee verificar si las flores cortadas que ha distribuido han sido tratadas correctamente.

De manera ventajosa, la preparación en la bolsita de acuerdo a la invención comprenderá un alimento y/o agente acondicionador y/o desinfectante y/o biocida y/o inhibidor del crecimiento. En este contexto, se comprende que el término agente acondicionador significa en particular un agente el cual es utilizado para ajustar el estado del agua, tal como la dureza o pH. El término inhibidor del crecimiento significa un agente el cual inhibe el crecimiento de microorganismos, de modo que el consumo de agua y el consumo de alimento por las flores cortadas siga siendo apropiado.

Además, en las bolsitas de acuerdo a la invención, es ventajoso si el papel filtro es semipermeable. En este contacto, debe comprenderse que el término semipermeable significa en particular la permeabilidad a partículas de un tamaño máximo de 100 hasta 400 μm .

Con el propósito de facilitar la producción, es ventajoso, en la bolsita de acuerdo a la invención, si la bolsa es de forma rectangular. En relación con la administración final de una bolsita de este tipo a un recipiente, como lo es una maceta, que contenga una cantidad de agua del orden de magnitud de 1 a 5 litros, aunque algunas veces más litros, es en este caso preferible si la bolsa rectangular tiene las dimensiones de 2 a 8 cm de ancho por 2 a 12 cm de longitud.

Además, en una bolsita, de acuerdo a la invención, es ventajoso si la bolsa es provista en el exterior con una imagen, en particular obtenida utilizando una técnica de impresión. El papel filtro es eminentemente adecuado para que

sea aplicada una imagen a este, por ejemplo, con la ayuda de una técnica de impresión como lo es una técnica de impresión flexográfica. La imagen puede en este caso ser aplicada en el papel filtro antes de que el papel filtro sea formado en una bolsa. De esta manera, es posible proporcionar a la bolsa un mensaje publicitario. En particular, sin embargo, es ventajoso que la bolsa sea provista de este modo con instrucciones de uso o aplicación. Sin embargo, también es altamente útil y ventajoso que la bolsa sea provista con una indicación de la preparación contenida en ella de esta manera. Esa indicación puede, por ejemplo, ser un nombre comercial, pero también puede ser una lista de ingredientes o constituyentes activos. También es posible proporcionar a la bolsa advertencias de esta manera.

Además, en las bolsitas de acuerdo a la invención, es ventajoso si la bolsa está hecha de un material filtrante el cual, cuando absorba agua, se vuelva transparente o translucido, de tal manera que el contenido se vuelva visible. De esta manera, es posible verificar, cuando la bolsa ha sido colocada en agua, mientras el contenido está presente en la bolsa. En este caso, también es ventajoso si todo el contenido es soluble en agua. Eso se debe a que de esta manera es posible la inspección visual para determinar si la bolsita está aún activa. Esto también hace posible evitar errores, puesto que puede determinarse visualmente si ha sido agregado un montaje de bolsa/bolsita vacío o utilizado en las flores cortadas. Para este propósito, también es posible utilizar una tinta que cambie de color

cuando se haya agotado la sustancia activa. A este respecto, debe darse en consideración, por ejemplo, a indicadores del pH, como lo es el litmus.

Además, la bolsita de acuerdo a la invención, puede ser ventajosa si el material soluble en agua es higroscópico.

La invención también se relaciona con un montaje de embalaje que comprende el embalaje externo a prueba de agua, o al menos a prueba de humedad, que contiene un gran número de bolsitas de cuerdo a la invención. El montaje de embalaje de este tipo puede ser utilizado para asegurar que las bolsitas arriben al usuario en buena condición, y además, puedan ser almacenadas en buenas condiciones durante un cierto tiempo por el usuario. El embalaje externo en este caso preferiblemente será un embalaje externo a prueba de agua o al menos a prueba de humedad, resellable. Puede darse consideración, por ejemplo, a una maceta de plástico con una tapa que pueda ser sellada sobre el reborde superior de la maceta vía un sello laberíntico, preferiblemente por sujeción.

La invención también se relaciona con el uso de una bolsita hecha de papel filtro permeable al agua para administrar una preparación, como lo es un alimento, y/o agente acondicionador y/o desinfectante y/o biocida y/o inhibidor del crecimiento de microorganismos, a flores cortadas que reposan en agua.

En el texto siguiente, la presente invención será explicada con mayor detalle, con referencia a un ejemplo el cual es ilustrado en los dibujos, en los cuales:

La Figura 2 muestra una vista esquemática y en perspectiva, parcialmente cortada, de una maceta que contiene flores cortadas, que contiene un montaje de bolsita de acuerdo a la invención.

15 La Figura 4 muestra, a manera de ejemplo, una red
16 de acuerdo a la invención que comprende una multiplicidad
de bolsitas 1 de acuerdo a la invención.

20 INVENCION

La Figura 1 muestra una bolsita de acuerdo a la invención. La bolsita 1 de acuerdo a la invención comprende una bolsa 2 que comprende papel filtro permeable al agua. La bolsa 2 está compuesta de un panel superior rectangular 4 y un panel inferior rectangular 5, paneles los cuales están unidos, juntos, a lo largo de su periferia, por ejemplo por medio de una unión adhesiva. Una preparación 3, la cual es mostrada parcialmente en una sección cortada, se sitúa en la

bolsa 2. La preparación 3 contiene en particular un alimento y/o un desinfectante y/o un biocida. La preparación 3 puede ser un polvo o gránulos, pero también puede ser una sustancia sólida en alguna otra forma. La preparación 3 puede ser totalmente soluble en agua, pero también ser parcialmente soluble en agua. En particular, es concebible que la preparación 3 comprende un sustrato que no sea soluble en agua, sustrato en el cual es situada la preparación soluble. Entonces, cuando es sustrato entre en contacto con el agua, la preparación se disolverá y será liberada del sustrato.

Como se muestra en la Figura 1 para el panel superior 4, la bolsa 2 puede ser impresa. En el ejemplo ilustrado, la impresión representa instrucciones de uso, a saber "colocar la bolsita sin abrir en 2 litros de agua".*

La longitud L de la bolsita que es ilustrada a manera de ejemplo en la Figura 1 es de aproximadamente 9 cm, mientras que su ancho W es de aproximadamente 5 cm. Sin embargo, deberá estar claro que esas dimensiones, las cuales se dan a manera de ejemplo para la longitud L y el ancho W, son meramente ilustrativas. Esas dimensiones pueden variar dentro de límites amplios. A manera de ejemplo, la dimensión para la longitud L puede variar en el intervalo de 2 a 6 cm, aunque también son concebibles dimensiones más pequeñas o más grandes para la longitud L. La dimensión del ancho W puede, por ejemplo, variar en el intervalo de 2 a 10 cm, aunque en este caso también, son concebibles dimensiones del ancho más grandes y más pequeñas.

Deberá notarse que, aunque la Figura 1 muestra una bolsita rectangular, la bolsita también puede ser en forma cuadrada, redonda, triangular o trapezoidal, o cualquier otra forma que pueda ser deseada.

5 La Figura 2 muestra, a manera de ejemplo, la maceta 10 que contiene flores cortadas 12 reposando en el agua 11. Una bolsita 11 de acuerdo a la invención está situada en esta maceta.

10 La Figura 3 muestra, a manera de ejemplo, un hilo 15 de acuerdo a la invención que comprende una multiplicidad de bolsitas 1 de acuerdo a la invención.

15 La Figura 4 muestra, a manera de ejemplo, una red 16 de acuerdo a la invención que comprende una multiplicidad de bolsitas 1 de acuerdo a la invención. La red 16 puede ser considerada como si estuviese compuesta de un número de hilos paralelos 15 como se muestra en la Figura 3 los cuales están unidos entre si en sus lados. Proporcionar las bolsitas de acuerdo a la invención en forma de red, hoja o hilo tiene la considerable ventaja de incrementar la facilidad de manejo, 20 en particular para el procesamiento automatizado de las bolsitas, considerablemente.

25 Se hace constar que con relación a esta fecha, el mejor método conocido por la solicitante para llevar a la práctica la citada invención, es el convencional para la manufactura de los objetos a que la misma se refiere.

NOVEDAD DE LA INVENCION

Habiéndose descrito la invención como antecede, se reclama como propiedad lo contenido en las siguientes

5

REIVINDICACIONES

1. Una bolsita, que comprende:

- una bolsa cerrada la cual está formada de papel filtro permeable al agua, y

10 - una sustancia sólida la cual está contenida en la bolsa y es al menos parcialmente soluble en agua,

donde la sustancia sólida soluble en agua comprende una preparación para flores cortadas, caracterizada porque la bolsita está hecha de un material filtrante el cual, cuando absorbe agua, se vuelve transparente o translúcida, de tal
15 manera que el contenido se vuelve visible.

2. La bolsita de conformidad con la reivindicación 1, caracterizado porque la preparación comprende un alimento y/o agente acondicionador y/o desinfectante y/o biocida y/o inhibidor del crecimiento.

20 3. La bolsita de conformidad con cualquiera de las reivindicaciones precedentes, caracterizado porque el papel filtro es semipermeable.

4. La bolsita de conformidad con cualquiera de las reivindicaciones precedentes, caracterizado porque la
25 bolsa tiene una forma rectangular, de manera preferible con dimensiones de 2 a 8 cm de ancho por 2 a 12 cm de longitud.

5. La bolsita de conformidad con cualquiera de las reivindicaciones precedentes, caracterizado porque la

bolsa está provista sobre el lado externo con una imagen, en particular obtenida utilizando la técnica de impresión.

5 6. La bolsita de conformidad con la reivindicación 5, caracterizado porque la imagen comprende instrucciones de uso o aplicación.

7. Un hilo que comprende un gran número de bolsitas de conformidad con cualquiera de las reivindicaciones precedentes, caracterizada porque están unidas para formar un hilo.

10 8. Una hoja o red, caracterizada porque comprende un numero grande de bolsitas de conformidad con cualquiera de las reivindicaciones precedentes, caracterizadas porque están unidas, juntas, para formar una hoja o red, por ejemplo que comprende un número de hilos paralelos de conformidad con la
15 reivindicación 8 que están unidos lateralmente entre si.

9. Un embalaje que comprende un embalaje externo a prueba de agua, o al menos a prueba de humedad, caracterizado porque comprende una pluralidad de bolsitas de conformidad con cualquiera de las reivindicaciones
20 precedentes.

10. El uso de una bolsita hecha de papel filtro permeable al agua para administrar una preparación, como lo es un alimento y/o agente acondicionador y/o desinfectante y/o biocida y/o inhibidor del crecimiento, para flores
25 cortadas que están reposando en agua, papel filtro el cual, cuando absorbe agua, se vuelve transparente o translucido de tal manera que el contenido se vuelve visible.

RESUMEN DE LA INVENCION

La invención se relaciona con una bolsita, en particular un montaje de bolsita, que comprende una bolsa
5 cerrada (2) la cual está formada de papel filtro permeable al agua, y una sustancia sólida (3) la cual está contenida en la bolsa y es al menos parcialmente soluble en agua. La sustancia sólida soluble en agua comprende una preparación para flores cortadas. En particular, la preparación comprende
10 un alimento y/o agente acondicionador y/o desinfectante y/o biocida y/o inhibidor del crecimiento. La invención también se relaciona con un montaje de embalaje que comprende un embalaje externo a prueba de agua, o al menos a prueba de humedad, que contiene un gran número de bolsitas de acuerdo
15 a la invención. La invención también se relaciona con el uso de una bolsita hecho de papel filtro permeable al agua para administrar una preparación para flores cortadas las cuales están reposando en agua.

PATENT COOPERATION TREATY

From the 9 SEP 2002

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

Jorritsma, Ruurd et al.
Nederlandsch Octrooibureau
Postbus 29720
Scheveningseweg 82
NL-2502 LS The Hague
PAYS-BAS

preliminary examination report

report number:

4-10-02

transmission date: 04.09.2002

13-12-02

PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL PRELIMINARY
EXAMINATION REPORT
(PCT Rule 71.1)

Date of mailing
(day/month/year)

04.09.2002

Applicant's or agent's file reference
BO 43658 Gro

IMPORTANT NOTIFICATION

International application No.
PCT/NL01/00446

International filing date (day/month/year)
13/06/2001

Priority date (day/month/year)
13/06/2000

Applicant

POKON & CHRYSAL B.V. et al.

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

For the purpose of deciding whether the claimed invention is patentable or not, the elected Offices may apply criteria additional to or different from the criteria on which the international preliminary examination report is based (see Articles 27(5), 33(5)). Additional criteria may include e.g. exemptions from patentability and the requirements of enabling disclosure and of clarity and support of claims.

Name and mailing address of the IPEA

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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 BO 43658 Gro		FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/NL01/00448	International filing date (day/month/year) 13/06/2001	Priority date (day/month/year) 13/06/2000	
International Patent Classification (IPC) or national classification and IPC B65D81/00			
Applicant POKON & CHRYSAL B.V. 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 4 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 70.18 and Section 807 of the Administrative Instructions under the PCT). These annexes consist of a total of 2 sheets.			
3. This report contains indications relating to the following items: - I ☒ Basis of the report - 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 Article 35(2) 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 11/01/2002		Date of completion of this report 04.08.2002	
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tlx 823656 epmu d Fax +49 89 2399 - 4465		Authorized officer Derrien, Y Telephone No. +49 89 2399 2622 	

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/NL01/00446

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:

1-5 as originally filed

Claims, No.:

1-10 as received on 08/08/2002 with letter of 08/08/2002

Drawings, sheets:

1/2,2/2 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.:

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**International application No. **PCT/NL01/00446**☐ 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:

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 1-10
	No:	Claims
Inventive step (IS)	Yes:	Claims 1-10
	No:	Claims
Industrial applicability (IA)	Yes:	Claims 1-10
	No:	Claims

**2. Citations and explanations
see separate sheet**

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INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET

International application No. PCT/NL01/00446

The closest prior art is the document JP-A-2000.143401 showing a sachet containing a water soluble preparation for cut flowers as recited in the preamble of claim 1.

The problem is to permit easy verification of the presence of water soluble preparation within the sachet.

The solution is a sachet made from a filter material which, when it takes up water, becomes transparent or translucent.

The features of the characterising part are not suggested in the Japanese publication nor in the FR-A-822 483.

Further, none of the cited documents suggests that it would be advantageous to see the contents of the sachet for cut flowers. On the contrary, the view of the contents of the sachet may disturb the decorative effect of the flowers.

Consequently, independent claim 1 meets the requirements set forth in Article 33 (2), (3) and (4) PCT, because its subject-matter is new, involves an inventive step and is susceptible of industrial application.

The dependent claims 2-6 relate to preferred embodiments of the subject-matter of claim 1 and also meet the requirements of Article 33 (2), (3) and (4) PCT.

The subject-matters of independent claims 7-10 contain all the features recited in claim 1 and also meet the requirements of Article 33 (2), (3) and (4) PCT.

08-08-2002

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CLAIMS

(103)

1. Sachet (1) comprising:
 - a closed bag (2) which is formed from water-permeable filter paper, and
 - a solid substance (3) which is contained in the bag and is at least partially water-soluble,wherein the water-soluble solid substance (3) comprises a preparation for cut flowers, characterized in that the bag is made from a filter material which, when it takes up water, becomes transparent or translucent, in such a manner that the contents (3) become visible.
2. Sachet (1) according to Claim 1, in which the preparation comprises a food and/or conditioning agent and/or disinfectant and/or biocide and /or growth inhibitor.
3. Sachet (1) according to one of the preceding claims, in which the filter paper is semi-permeable.
4. Sachet (1) according to one of the preceding claims, in which the bag has a rectangular shape, preferably with dimensions of 2 to 8 cm wide by 2 to 12 cm long.
5. Sachet (1) according to one of the preceding claims, in which the bag is provided on the outside with an image, in particular obtained using a printing technique.
6. Sachet (1) according to Claim 5, in which the image comprises instructions for use or application.
7. Strand comprising a large number of sachets according to one of the preceding claims which are joined together to form a strand.
8. Sheet or web comprising a large number of sachets according to one of the preceding claims which are joined together to form a sheet or web, for example

AMENDED SHEET

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comprising a number of parallel strands according to Claim 8 which are joined laterally to one another.

9. Packaging comprising a waterproof, or at least moisture-proof, outer packaging
5 containing a plurality of sachets (1) according to one of the preceding claims.
10. Use of a sachet (2) made from water-permeable filter paper for administering a
10 preparation, such as a food and/or conditioning agent and/or disinfectant and/or biocide and/or growth inhibitor, to cut flower (12) which are standing in water (11), which filterpaper, when it takes up water, becomes transparent or translucent in such a manner that the contents (3) become visible.

AMENDED SHEET

PATENT COOPERATION TREATY

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From the RECEIVING OFFICE

To: Mr. R. Jorritsma NEDERLANDSCH OCTROOIBUREAU Scheveningseweg 82 2517 KZ Den Haag		PCT	
		NOTIFICATION OF THE INTERNATIONAL APPLICATION NUMBER AND OF THE INTERNATIONAL FILING DATE (PCT Rule 20.5(c))	
		Date of mailing (day/month/year) 20 June 2001 (20.06.01)	
Applicant's or agent's file reference BO 49658		IMPORTANT NOTIFICATION	
International application No. PCT/NL01/00446	International filing date (day/month/year) 13 June 2001 (13.06.01)	Priority date (day/month/year) 13 June 2000 (13.06.00)	
Applicant Pekon & Chrysal B.V. et al			
Title of the invention Sachet, verpakkingsaansamenstel, streng, baan, alsmede gebruik van een sachet			
1. The applicant is hereby notified that the international application has been accorded the international application number and the international filing date indicated above. 2. The applicant is further notified that the record copy of the international application: ☒ was transmitted to the International Bureau on <u>22 June 2001 (22.06.01)</u> ☐ has not yet been transmitted to the International Bureau for the reason indicated below and a copy of this notification has been sent to the International Bureau *: ☐ because the necessary national security clearance has not yet been obtained. ☐ because (reason to be specified): * The International Bureau monitors the transmittal of the record copy by the receiving Office and will notify the applicant (with Form PCT/IB/301) of its receipt. Should the record copy not have been received by the expiration of 14 months from the priority date, the International Bureau will notify the applicant (Rule 22.1(c))			
Name and mailing address of the receiving Office Bureau voor de Industriële Eigendom P.O. Box 5820 2280 HV Rijswijk The Netherlands Facsimile No. +31703986507		Authorized officer A. Visser Telephone No. +31703986471	

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)

BO 43658

Box No. I TITLE OF INVENTION	
Sachet, packaging assembly, strand, web, and use of a sachet	
Box No. II APPLICANT ☐ This person is also inventor	
Name and address: (Family name followed by given names; 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.)	
Pekon & Chrysal B.V. Gooimeer 7 NL-1411 DD NAARDEN The Netherlands	
Telephone No.	
Facsimile No.	
Teleprinter No.	
Applicant's registration No. with the Office	
State (that is, country) of nationality: The Netherlands (NL)	
State (that is, country) of residence: The Netherlands (NL)	
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 names; 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.)	
VAN DER SCHAAF, Tjerk Pier Volendamstraat 14 NL-8244 DT LELYSTAD The Netherlands	
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: The Netherlands (NL)	
State (that is, country) of residence: The Netherlands (NL)	
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 names; for a legal entity, full official designation. The address must include postal code and name of country.)	
JORRITSMA, Ruurd et al Nederlandsch Octrooibureau Scheveningseweg 82, P.O. Box 29720 NL-2502 LS THE HAGUE THE NETHERLANDS	
Telephone No. (0031) 70 3527500	
Facsimile No. (0031) 70 3527528	
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.	

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)

BO 43658

Box No. I TITLE OF INVENTION

Sachet, verpakkingsaamenstel, streng, baan, alsmede gebruik van een sachet

Box No. II APPLICANT

☐ This person is also inventor

Name and address: (Family name followed by given names; 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 (no State of residence is indicated below.)

Pokon & Chrysal B.V.
Goedmeer 7
NL-1411 DD NAARDEN
The Netherlands

Telephone No.

Facsimile No.

Teleprinter No.

Applicant's registration No. with the Office

State (that is, country) of nationality:

The Netherlands (NL)

State (that is, country) of residence:

The Netherlands (NL)

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 names; 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 (no State of residence is indicated below.)

VAN DER SCHAAF, Tjerk Pler
Volendamstraat 14
NL-8244 DT LELYSTAD
The Netherlands

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:

The Netherlands (NL)

State (that is, country) of residence:

The Netherlands (NL)

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 names; for a legal entity, full official designation. The address must include postal code and name of country.)

JORRITSMA, Ruurd et al
Nederlandsch Octrooibureau
Scheveningseweg 82, P.O. Box 29720
NL-2502 LS THE HAGUE
THE NETHERLANDS

Telephone No.

(0031) 70 3527500

Facsimile No.

(0031) 70 3527528

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.

Sheet No.2...

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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 names; 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 (no State of residence is indicated below).) GROENENWOUDE, Ewald Kropaar 3 NL-1273 AL HUIZEN The Netherlands	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: The Netherlands (NL)	State (that is, country) of residence: The Netherlands (NL)
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 names; 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 (no State of residence is indicated below).) HERMAN, Paul Thomas Dirk Zonnebloempad 8 NL-8255 JB SWIFTERBANT The Netherlands	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: The Netherlands (NL)	State (that is, country) of residence: The Netherlands (NL)
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 names; 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 (no State of residence is indicated below).)	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:	State (that is, country) of residence:
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 names; 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 (no State of residence is indicated below).)	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:	State (that is, country) of residence:
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.	

Sheet No. 3

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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, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT
- ☒ **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, CH & LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, 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, 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, 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 | ☐ GE Georgia | ☐ MW Malawi |
| ☒ AG Antigua and Barbuda | ☐ GH Ghana | ☐ MX Mexico |
| ☐ AL Albania | ☐ GM Gambia | ☐ MZ Mozambique |
| ☐ AM Armenia | ☐ HR Croatia | ☐ NO Norway |
| ☐ AT Austria | ☐ HU Hungary | ☐ NZ New Zealand |
| ☐ AU Australia | ☐ ID Indonesia | ☐ PL Poland |
| ☐ AZ Azerbaijan | ☐ IL Israel | ☐ PT Portugal |
| ☐ BA Bosnia and Herzegovina | ☐ IN India | ☐ RO Romania |
| | ☐ IS Iceland | ☐ RU Russian Federation |
| ☐ BB Barbados | ☐ JP Japan | |
| ☐ BG Bulgaria | ☐ KE Kenya | ☐ SD Sudan |
| ☐ BR Brazil | ☐ KG Kyrgyzstan | ☐ SE Sweden |
| ☐ BY Belarus | ☐ KP Democratic People's Republic of Korea | ☐ SG Singapore |
| ☐ BZ Belize | ☐ KR Republic of Korea | ☐ SI Slovenia |
| ☐ CA Canada | ☐ KZ Kazakhstan | ☐ SK Slovakia |
| ☐ CH & LI Switzerland and Liechtenstein | ☐ LC Saint Lucia | ☐ SL Sierra Leone |
| ☐ CN China | ☐ LK Sri Lanka | ☐ TJ Tajikistan |
| ☐ CO Colombia | ☐ LR Liberia | ☐ TM Turkmenistan |
| ☐ 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 |
| ☐ EE Estonia | ☐ MG Madagascar | |
| ☐ ES Spain | ☐ MK The Former Yugoslav Republic of Macedonia | ☐ UZ Uzbekistan |
| ☐ FI Finland | ☐ MN Mongolia | ☐ VN Viet Nam |
| ☐ GB United Kingdom | | ☐ YU Yugoslavia |
| ☐ GD Grenada | | ☐ ZA South Africa |
| | | ☐ ZW Zimbabwe |

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

- ☐ EC... Ecuador
- ☐

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 these 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.)

NO. 688 P. 10/32

INTEK 25 JAN 2002 PATENT COOPERATION TREATY

Paidai breiværkon
Fróm þess

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT

To:

Jorritsma, Ruurd et al.
NEDERLANDSCH OCTROOIBUREAU
Postbus 29720
Scheveningseweg 82
NL-2502 LS The Hague
PAYS-BAS

**NOTIFICATION OF RECEIPT
OF DEMAND BY COMPETENT INTERNATIONAL
PRELIMINARY EXAMINING AUTHORITY**

(PCT Rules 39.3(e) and 61.1(b), first sentence and Administrative Instructions, Section 601(a))

Date of mailing
(day/month/year)

23 01 02

Applicant's or agent's file reference

BO 43658 Gro

IMPORTANT NOTIFICATION

International application No.

PCT/NL 01/ 00446

International filing date (day/month/year)

13/06/2001

Priority date (day/month/year)

13/06/2000

Applicants

POKON & CHRYSAL B.V. et al.

1. The applicant is hereby notified that this International Preliminary Examining Authority considers the following date as the date of receipt of the demand for international preliminary examination of the international application:

11/04/2002

2. This date of receipt is

- ☒ the actual date of receipt of the demand by this Authority (Rule 61.1(b)).
- ☐ the actual date of receipt of the demand on behalf of this Authority (Rule 59.3(c)).
- ☐ the date on which this Authority has, in response to the invitation to correct defects in the demand (Form PCT/PEA/M04), received the required corrections.

1. ☐ **ATTENTION:** That date of receipt is **AFTER** the expiration of 19 months from the priority date. Consequently, the election(s) made in the demand does (do) not have the effect of postponing the entry into the national phase until 30 months from the priority date (or later in some Offices) (Article 39(1)). Therefore, the entry into the national phase must be performed within 20 months from the priority date (or later in some Offices) (Article 22). For details, see the **PCT Applicant's Guide** Volume II.

- ☐ (If applicable) This notification confirms the information given by telephone, facsimile transmission or in person on:

4. Only where paragraph 3 applies, a copy of this notification has been sent to the International Bureau.

Name and mailing address of the IPEA/

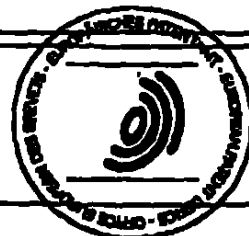


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Authorized officer

DUPONT-HUEPER M

Tel. (+49-89) 2199-7952



Form PCT/LPEA/002 (July 1998) P20452

~~(19/01/2002)~~

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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/ /EP

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
		BO 43658 Om
International application No.	International filing date (day/month/year)	(Earliest) Priority date (day/month/year)
PCT/NL01/00446	13 June 2001 (13.06.01)	13 June 2000 (13.06.00)
Title of invention		
Sachet, packing assembly, strand, web, and use of a sachet		
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.)		Telephone No.
Pokon & Chrysal B.V. Gooimeer 7 NL-1411 DD Naarden The Netherlands		Facsimile No.
		Teleprinter No.
		Applicant's registration No. with the Office
State (that is, country) of nationality:		State (that is, country) of residence:
The Netherlands (NL)		The Netherlands (NL)
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.)		
Van der Schaaf, Tjerk Pier Volendamstraat 14 NL-8244 DT Lelystad The Netherlands		
State (that is, country) of nationality:		State (that is, country) of residence:
The Netherlands (NL)		The Netherlands (NL)
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.)		
Groenewoud, Ewald Kroopaar 3 NL-1273 AL Huizen The Netherlands		
State (that is, country) of nationality:		State (that is, country) of residence:
The Netherlands (NL)		The Netherlands (NL)
☐ Further applicants are indicated on a continuation sheet.		

2

Sheet No. ...

PCT/PEA/401/40446 No.

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.)
~~Deelman, Paul Thomas Dirk~~
Zonnebloempad 8
NL-8255 JB Swifterband
The Netherlands

~~The Netherlands (NL)~~ nationality:~~The Netherlands (NL)~~ residence:

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:

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:

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.

fig-3

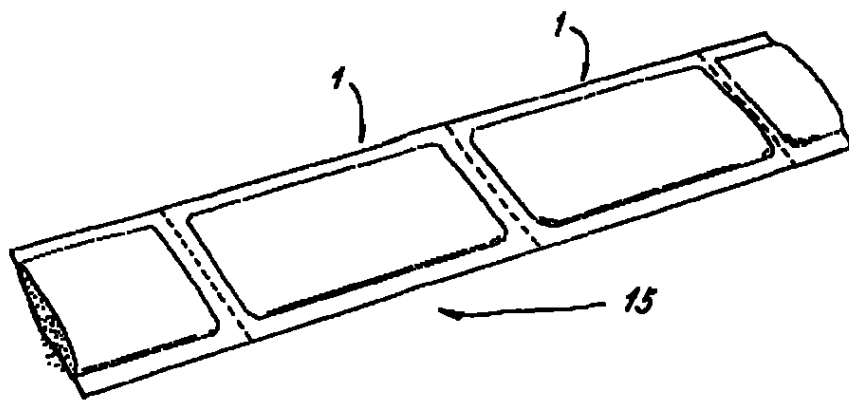
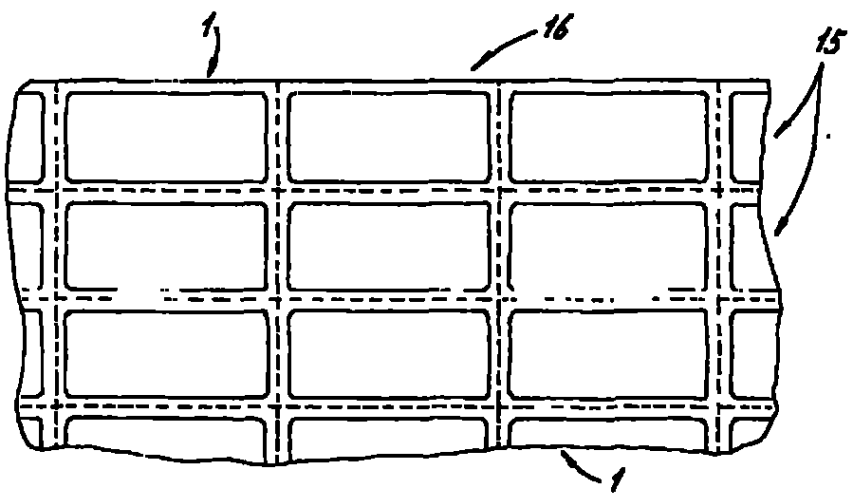


fig-4



172

fig-1

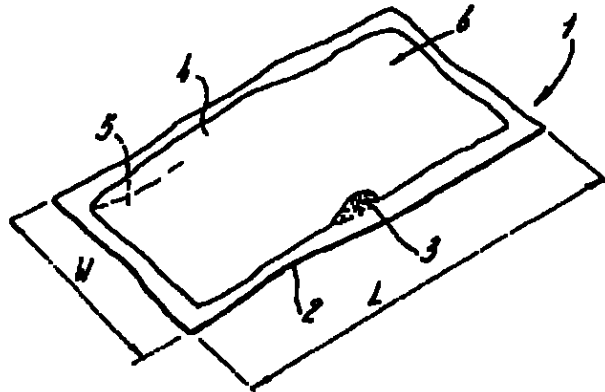


fig-2

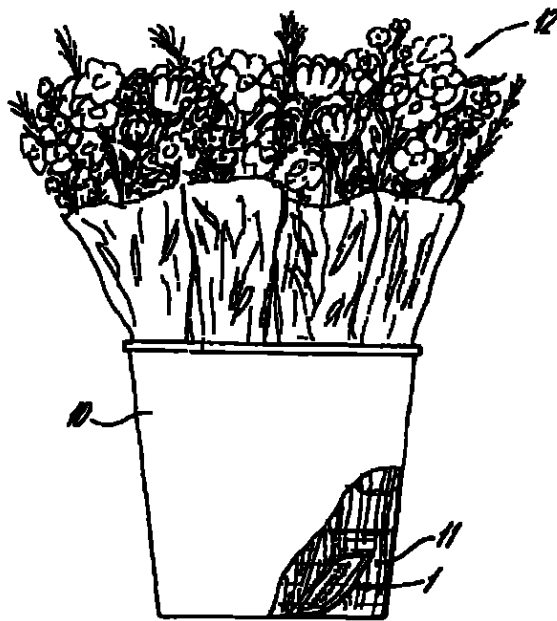


fig-1

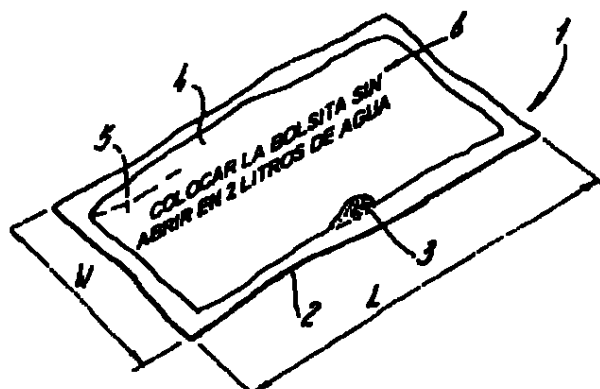
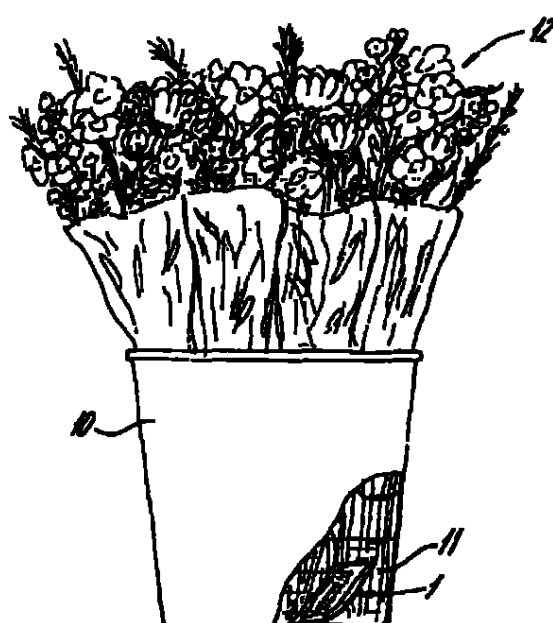


fig-2



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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
20 December 2001 (20.12.2001)

PCT

(10) International Publication Number
WO 01/96206 A1(51) International Patent Classification: B65D 81/00,
A01G 5/06(NL/NL); Kropaar 3, NL-1273 AL Huizen (NL). HER-
MAN, Paul, Thomas, Dirk [NL/NL]; Zonnebloempad 8,
NL-8255 JB Swifterbant (NL).

(21) International Application Number: PCT/NL01/00446

(74) Agent: JORRITSMA, Ruurd; Nederlandsch Octrooibureau,
Scheveningsweg 82, P.O. Box 39730, NL-2503 LS
The Hague (NL).

(22) International Filing Date: 13 June 2001 (13.06.2001)

(25) Filing Language: Dutch

(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,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA,
ZW.

(26) Publication Language: English

(30) Priority Data:
1015423

13 June 2000 (13.06.2000) NL

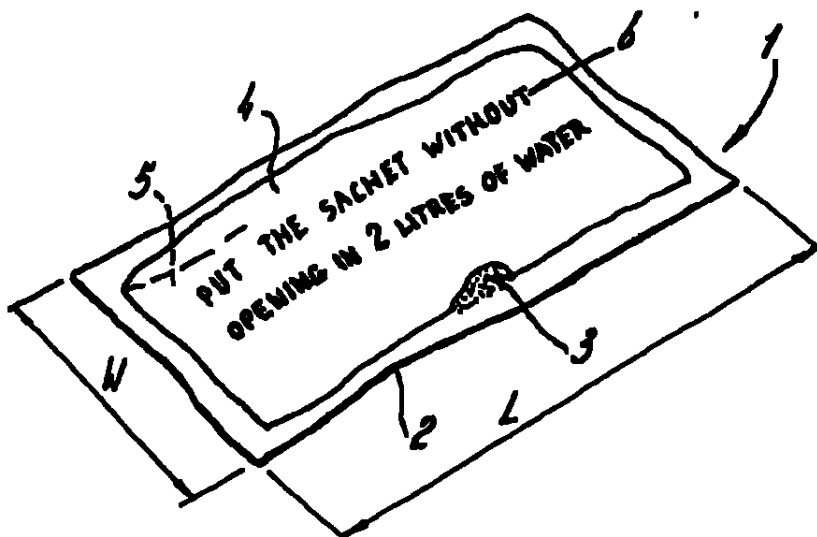
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Naarden (NL).(84) Designated States (regional): ARIPO patent (GH, GM,
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IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TO).

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(Continued on next page)

(54) Title: PACKAGE COMPRISING FEEDING MATERIALS FOR CUT FLOWERS



(57) Abstract: The invention relates to a sachet, in particular a sachet assembly, comprising a closed bag (2) which is formed from water-permeable filter paper, and a solid substance (3) which is contained in the bag and is at least partially water-soluble. The water-soluble solid substance comprises a preparation for cut flowers. In particular, the preparation comprises a foodstuff and/or conditioning agent and/or disinfectant and/or biocide and/or growth inhibitor. The invention also relates to a packaging assembly comprising a waterproof, or at least moisture-proof, outer packaging containing a large number of sachets according to the invention. The invention also relates to the use of a sachet made from water-permeable filter paper for administering a preparation to cut flowers which are standing in water.

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1

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- with international search report
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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.

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PACKAGE COMPRISING FEEDING MATERIALS FOR CUT FLOWERS

The present invention relates to a sachet, in particular a sachet assembly, comprising:

- a closed bag which is formed from water-permeable filter paper and
- 5 - a solid substance which is contained in the bag and is at least partially water-soluble.

A sachet assembly of this type is known. One could think, for example, of a tea bag, which is formed from a filter paper, also known as tea bag paper, in which a certain
10 quantity of optionally comminuted tea leaves is packaged. A tea bag of this type is, as is known, generally provided with a string which can be used to hang it in a tea cup or tea pot so that, once the tea has brewed sufficiently, the string can be used to remove it again from the cup or tea pot.

- 15 It is an object of the present invention to provide a preparation for cut flowers in an administration form which is such that it is ensured and can be checked that a specific dose has been administered to the water in which the cut flowers are standing.

According to the invention, this object is achieved by the fact that, in the sachet of the
20 type described in the introduction, the water-soluble solid substance comprises a preparation for cut flowers. A sachet of this type can be placed in the water in a container holding cut flowers which are standing in water, after which the water can enter the bag via the filter paper, so that the preparation is dissolved, and then carries the preparation out of the bag in dissolved form. Since the bag is closed, administration
25 of one bag ensures that a specific dose is administered. Furthermore, the bag will remain present even after it has been administered to the water, which makes it easy to check that the preparation has been administered. Therefore, it is possible for both the purchaser, such as a florist or consumer, to see that the cut flowers which have been purchased are in water which has been appropriately treated, and also it is possible for
30 an inspection body to establish, in a simple and efficient way, that a specific dose has been administered to cut flowers. An inspection body of this type may, for example, be a body which checks the quality of goods on behalf of a professional association of cut-

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flower traders, but may also, for example, be a supplier or purchaser of cut flowers who wishes to check whether the cut flowers which he has supplied are treated correctly.

Advantageously, the preparation in the sachet according to the invention will comprise
5 a food and/or conditioning agent and/or disinfectant and/or biocide and/or growth inhibitor. In this context, the term conditioning agent is understood in particular as meaning an agent which is used to adjust the state of the water, such as its hardness or pH. The term growth inhibitor is understood as meaning an agent which inhibits the growth of microorganisms, so that the water uptake and food uptake by the cut flowers
10 remains appropriate.

Furthermore, in the sachet according to the invention, it is advantageous if the filter paper is semi-permeable. In this context, the term semi-permeable is understood as meaning in particular permeability to particles up to a maximum size of 100 to 400 µm.
15

With a view to ease of production, it is advantageous, in the sachet according to the invention, if the bag is rectangular in shape. In connection with the final administration of a sachet of this type to a container, such as a bucket, holding a quantity of water of the order of magnitude of 1 to 5 litres, although sometimes more litres, it is in this case
20 preferable if the rectangular bag has dimensions of 2 to 8 cm wide by 2 to 12 cm long.

Furthermore, in a sachet according to the invention, it is advantageous if the bag is provided on the outside with an image, in particular obtained using a printing technique. Filter paper is eminently suitable for an image to be applied thereto, for
25 example, with the aid of a printing technique such as a flexographic printing technique. The image may in this case be applied to the filter paper before the filter paper is formed into a bag. In this way, it is possible to provide the bag with an advertising message. In particular, however, it is advantageous for the bag in this way to be provided with instructions for use or application. However, it is also highly useful and
30 advantageous for the bag to be provided with an indication of the preparation contained therein in this way. Such an indication may, for example, be a brand name, but may also be a list of the ingredients or active constituents. It is also possible to provide the bag with warnings in this way.

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Furthermore, in the sachet according to the invention, it is advantageous if the bag is made from a filter material which, when it takes up water, becomes transparent or translucent, in such a manner that the contents become visible. In this way, it is possible to check, when the bag has been put in water, that the contents are present in the bag. In this case, it is also advantageous if the entire contents are water-soluble. This is because in this way it is possible by visual inspection to determine whether the sachet is still active. This also makes it possible to prevent errors, since it can be determined visually whether an empty or used bag/sachet assembly has been added to the cut flowers. For this purpose, it is also possible to use an ink which changes colour when the active substances have been exhausted. In this regard, consideration may be given, for example, to pH indicators, such as litmus.

Furthermore, in the sachet according to the invention, it may be advantageous if the water-soluble material is hygroscopic.

The invention also relates to a packaging assembly comprising a waterproof, or at least moisture-proof, outer packaging containing a large number of sachets according to the invention. A packaging assembly of this type can be used to ensure that the sachets arrive at the user in good condition and, moreover, can be stored in good condition for a certain time by the user. The outer packaging will in this case preferably be a waterproof or at least moisture-proof recloseable outer packaging. Consideration may be given, for example, to a plastic bucket with a lid which can seal onto the upper rim of the bucket via a, preferably clamping, labyrinth seal.

The invention also relates to the use of a sachet made from water-permeable filter paper for administering a preparation, such as a food, and/or conditioning agent and/or disinfectant and/or biocide and/or growth inhibitor for microorganisms, to cut flowers which are standing in water.

In the text which follows, the present invention will be explained in more detail with reference to an example which is illustrated in the drawing, in which:

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Fig. 1 shows a diagrammatic and perspective, partially cut-away view of a sachet assembly according to the invention; and

5 Fig. 2 shows a diagrammatic and perspective, partially cut-away view of a bucket holding cut flowers, which contains a sachet assembly according to the invention.

Fig. 1 shows a sachet 1 according to the invention. The sachet 1 according to the invention comprises a bag 2 comprising water-permeable filter paper. The bag 2 is composed of a rectangular upper panel 4 and a rectangular lower panel 5, which panels
10 are joined together along their periphery, for example by an adhesive bond. A preparation 3, which is partially shown in a cut-away section, is situated in the bag 2. This preparation 3 contains in particular a food and/or a disinfectant and/or a biocide. The preparation 3 may be a powder or granules, but may also be a solid substance in some other form. The preparation 3 may be entirely water-soluble, but may also be
15 partially water-soluble. In particular, it is conceivable for the preparation 3 to comprise a substrate which is not water-soluble, in which substrate the soluble preparation is situated. Then, when the substrate comes into contact with water, the preparation will be dissolved and will be released from the substrate.

20 As shown in Fig. 1 for the upper panel 4, the bag 2 may be printed. In the example illustrated, the printing represents instructions for use, namely "put sachet without opening in 2 litres of water".

The length L of the sachet which is illustrated by way of example in Fig. 1 is
25 approximately 9 cm, while its width W is approximately 5 cm. However, it should be clear that these dimensions, which are given by way of example for the length L and width W, are purely illustrative. These dimensions may vary within wide limits. By way of example, the dimension for the length L may vary in a range from 2 to 16 cm, although smaller or larger dimensions for the length L are also conceivable. The width
30 dimension W may, for example, vary in a range from 2 to 10 cm, although in this case too, both smaller and larger width dimensions are conceivable.

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It should be noted that, although Fig. 1 shows a rectangular sachet, the sachet may also be square, round, triangular or trapezium-shaped, or whatever other form may be desired.

- 5 Fig. 2 shows, by way of example, a bucket 10 containing cut flowers 12 standing in water 11. A sachet 1 according to the invention is situated in this bucket.

Fig. 3 shows, by way of example, a strand 15 according to the invention comprising a multiplicity of sachets 1 according to the invention.

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Fig. 4 shows, by way of example, a web 16 according to the invention comprising a multiplicity of sachets 1 according to the invention. The web 16 can be considered as being composed of a number of parallel strands 15 as shown in Fig. 3 which are joined together at their sides. Providing the sachets according to the invention in web, sheet or

- 15 strand form has the considerable advantage of increasing the ease of handling, in particular for automated processing, of the sachets considerably.

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CLAIMS

1. Sachet (1) comprising:
 - a closed bag (2) which is formed from water-permeable filter paper, and
 - 5 - a solid substance (3) which is contained in the bag and is at least partially water-soluble,
characterized in that the water-soluble solid substance (3) comprises a preparation for cut flowers.
- 10 2. Sachet (1) according to Claim 1, in which the preparation comprises a food and/or conditioning agent and/or disinfectant and/or biocide and /or growth inhibitor.
- 15 3. Sachet (1) according to one of the preceding claims, in which the filter paper is semi-permeable.
4. Sachet (1) according to one of the preceding claims, in which the bag has a rectangular shape, preferably with dimensions of 2 to 8 cm wide by 2 to 12 cm long.
- 20 5. Sachet (1) according to one of the preceding claims, in which the bag is provided on the outside with an image, in particular obtained using a printing technique.
- 25 6. Sachet (1) according to Claim 5, in which the image comprises instructions for use or application.
7. Sachet (1) according to one of the preceding claims, in which the bag is made from a filter material which, when it takes up water, becomes transparent or translucent, in such a manner that the contents (3) become visible.
- 30 8. Strand comprising a large number of sachets according to one of the preceding claims which are joined together to form a strand.

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9. Sheet or web comprising a large number of sachets according to one of the preceding claims which are joined together to form a sheet or web, for example comprising a number of parallel strands according to Claim 8 which are joined laterally to one another.

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10. Packaging comprising a waterproof, or at least moisture-proof, outer packaging containing a plurality of sachets (1) according to one of the preceding claims.
- 10 11. Use of a sachet (2) made from water-permeable filter paper for administering a preparation, such as a food and/or conditioning agent and/or disinfectant and/or biocide and/or growth inhibitor, to cut flower (12) which are standing in water (11).

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fig-1

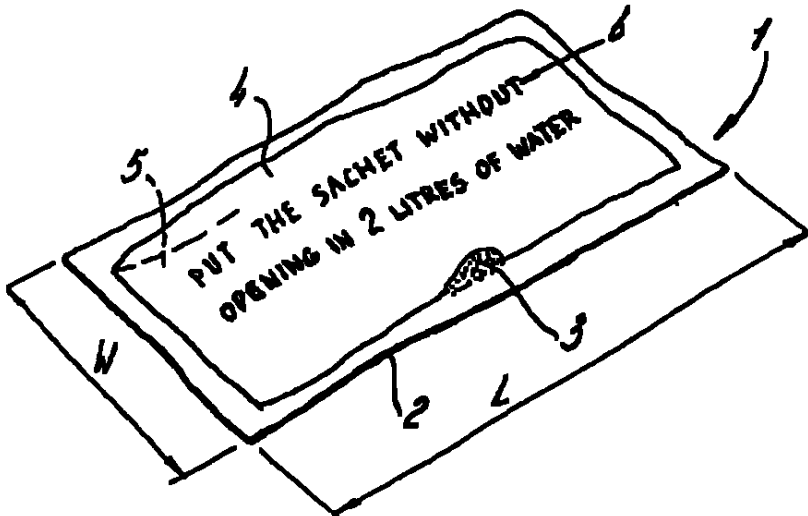
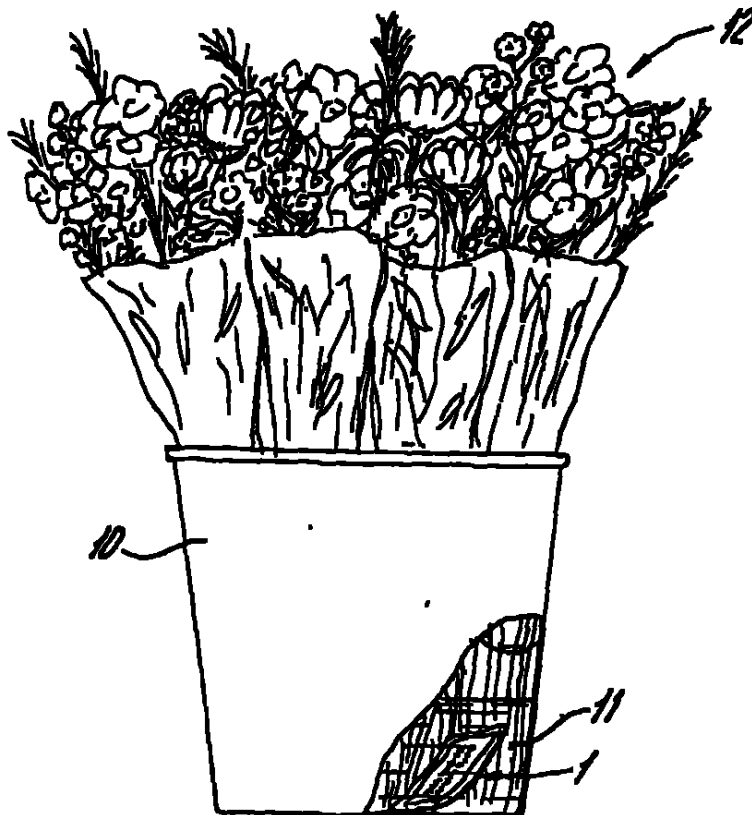


fig-2



SUBSTITUTE SHEET (RULE 26)

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fig-3

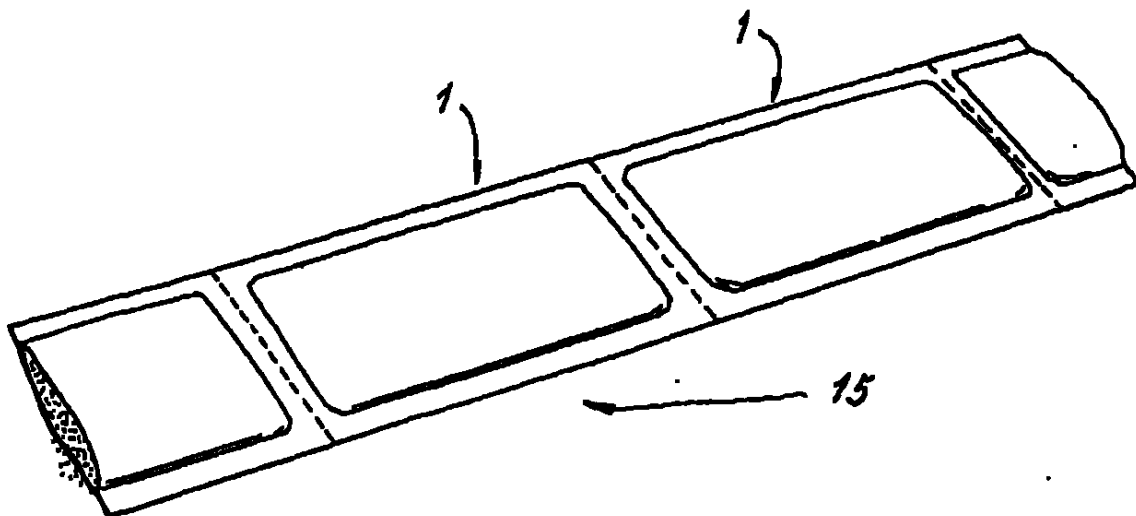
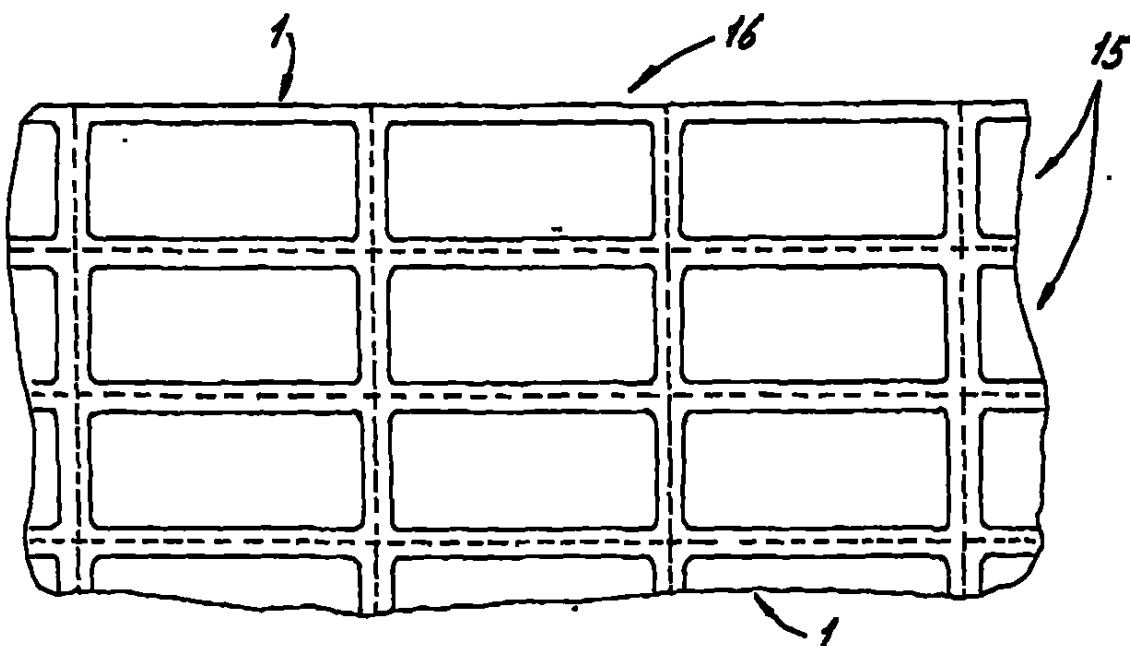


fig-4



SUBSTITUTE SHEET (RULE 26)

INTERNATIONAL SEARCH REPORT

International Application No

PCT/NL 01/00446

43

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 B65D81/00 A01G5/06

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 B65D A01G

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevance to claim No.
X	FR 822 483 A (W. EISENBERG) 30 December 1937 (1937-12-30)	1,2
Y	page 1, right-hand column, line 50 - line 58	4-6,8-11
A		3
Y	NO 98 42180 A (HERMAN PAUL THOMAS DIRK ;POKON & CHRYSAL B V (NL); GROENEWOUD EWAL) 1 October 1998 (1998-10-01)	4-6,8-11
A	page 4, line 32 - line 38 page 8, line 26 - line 29 figure 1	1,2

☐ Further documents are listed in the continuation of box C.

☒ 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(s) 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)
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- *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
- *Z* document (member of the same patent family)

Date of the actual completion of the international search

14 November 2001

Date of mailing of the international search report

25/11/2001

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/NL 01/00446

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
FR 822483	A	30-12-1937	NONE
WO 9842180	A	01-10-1998	NL 1005613 C2 28-09-1998
			EP 0967856 A1 05-01-2000
			JP 2000512158 T 19-09-2000
			WO 9842180 A1 01-10-1998
			PL 335844 A1 22-05-2000

PC 45

Industria y Comercio
SUPERINTENDENCIA

SUPERINDUSTRIA Y COMERCIO
Radicación : 02113240 00000000 Folios: 47
Fecha (GMB): 2002-12-13 16:21:30
Trámite : 011 PCT-PATENT 379 FASE NACI 411 PRESENTAC
Dependencia: 2020 DIVISION DE NUEVAS CREACIONES
NIT : 900170007-2

SERIE ORIGINAL DE DATA : 02 - 03,773
TEMA : DICIEMBRE 13 DE 2002

******* CONSIDERACION *******

DEPOSITANTE	TIPO PAGO	BANCO	CUENTA	NO. PAGO	FECHA PGO	VAL. PAGO
CLARKE ROBERT Y CA. COLOMBIANOSISTEM		BANCO POPULAR	030-00110-6	5001105	12/12/2002	1,544,000.00

******* CONCEPTO *******

CANT. IDENTIFICADO	CONCEPTO	TOTAL CONCEPTO
1	PAJES-01-01 SOLICITUDES	
1	TRAMITES DE SOL. DE PATENTE DE IN	772,000.00
	TOTAL :	772,000.00

VAL. TRESCIENTOS SETENTA Y OCHO MIL PESOS

RESPONSABLE : 

RECORD DE DATA RELACIONES AL EXERCICIO 13. _____

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REQUISITOS NECESARIOS PARA PRESENTACION Y AGILIZACION DEL
TRAMITE

USUARIO RADICADOR

PATENTE DE INVENCION 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 y 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. () ()
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- Representación gráfica del esquema de trazado () ()
- Comprobante de pago de las tasas establecidas. () ()

COMPLETA () INCOMPLETA () ()

Firma Responsable:

Fecha: SUPERINDUSTRIA Y COMERCIO
Radicación : DE113240 00000000 Folios: 47
Fecha (HH): 2002-12-13 16:21:30
Trámite : 011 PCT-PATENT 379 FASE NDC1 411 PRESENTAC
Dependencia: 2020 DIVISION DE NUEVAS CREACIONES



2020
Bogotá, D.C.,

Doctor:
DILIA MARIA RODRIGUEZ D'ALEMAN
Apoderado
POKON & CRYSA B. V.

Oficio N° 05549

ASUNTO:	Radicación N°	02-113240
	Solicitud internacional	PCT/NL2001/000446
	Fecha inicio fase nacional	13/01/2003
	Trámite	011
	Evento	379
	Actuación	330
	Folios	001

Como resultado del examen de forma, realizado con fundamento en el artículo 38 de la Decisión 486 de la Comisión de la Comunidad Andina, artículo 27 del Tratado de Cooperación en Materia de Patentes (PCT), regla 51 bis del Reglamento y Circular Única de la Superintendencia de Industria y Comercio, se le comunica que:

- ☐ La solicitud no contiene la traducción de los anexos del reporte de examen preliminar internacional (Art. 36.2.b) del tratado PCT).
- ☐ La solicitud no contiene los dibujos. (Art. 26-d) Decisión 486 y numeral 5.2.5, capítulo quinto del título décimo de la Circular Única de la SIC).
- ☐ La solicitud no contiene la copia del documento en que consta la cesión del derecho a la patente del inventor al solicitante o a su causante. (Art. 26-k) Decisión 486).
- ☐ La solicitud no contiene el poder debidamente otorgado, con el lleno de los requisitos exigidos por los artículos 63 y subsiguientes del Código de Procedimiento Civil. Adicionalmente, deberá presentar el documento que acredite la existencia y representación legal de la sociedad solicitante, cuando ésta fuere persona jurídica.
- ☐

En cumplimiento de lo dispuesto por el artículo 39 de la Decisión 486, se le requiere para que dentro del término de dos meses siguientes a la fecha de notificación del presente oficio, complete los requisitos anteriormente enunciados. En caso de no dar cumplimiento al presente requerimiento, la solicitud se considerará abandonada y perderá su prelación.

Notifíquese el presente oficio conforme a lo dispuesto en el numeral 5.2, literal e), del capítulo quinto del título primero de la Circular Única N° 10 de 2001.


ALIX CARMENZA CESPEDES DE VERGEL
Jefe de la División de Nuevas Creaciones.

18 JUL 2003

El anterior requerimiento fue notificado por fijación en lista de fecha_____.