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Señora Jefe de la
DIVISION DE NUEVAS CREACIONES
Superintendencia de Industria y Comercio
E. S. D.

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
Rad: 05-059499- -00004-0000
Fec: 2006-11-29 18:09:24 Dep. 2020 NUECREACIONE:
Tra. 11 PATENTEIYII
Eve: 378 FASENACIONALI
Act 538 PETICION Folios: 2

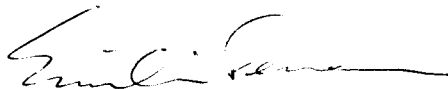
Trámite : 011
Evento : 378
Actuación : 538

Referencia : Expediente No. 05.059.499
Asunto : Solicitud de patente para: **PROCESO Y APARATO PARA EL LLENADO DE ALTA VELOCIDAD DE FILTROS COMPUESTOS PARA CIGARRILLOS**
Solicitante : **FILTRONA INTERNATIONAL LTD.**
Fecha solicitud : 17 de junio de 2005

1. Yo, Emilio FERRERO, identificado como aparece al pie de mi firma, actuando como apoderado en el asunto de la referencia, atentamente solicito se efectúe el examen de patentabilidad de la solicitud en referencia según lo establecido en el artículo 44 de la Decisión 486 de la Comisión de la Comunidad Andina. Para tal efecto presento junto con este escrito el recibo por valor de \$388.000.00, que corresponde a la tasa fijada según lo dispuesto en la Resolución No. 35582 del 28 de diciembre de 2005.

2. Ruego atentamente a la Señora Jefe se sirva ordenar que se anexe este recibo, para que se efectúe dicho examen y se continúe con el trámite de la solicitud.

Bogotá,
Señora Jefe,



EMILIO FERRERO
T.P.A. No. 31.929

COLO 14798-841-001-4
JGG/JGG/ID-000012/WPC14798
Cns M-2006-00013653

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SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
Rad: 05-059499- -00004-0000
Fec: 2006-11-29 18:09:24 Dep. 2020 NUECREACION
Tra. 11 PATENTEIYII
Eve: 378 FASENACIONALI
ANEXO PETICION Folios: 2

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

NIT : 800176089-2

RECIBO OFICIAL DE CAJA : 06 - 86,277
FECHA : NOVIEMBRE 8 DE 2006

***** CONSIGNACION *****

DEPOSITANTE	TIPO PAGO	BANCO	CUENTA	Nº. PAGO	FECHA PGO	Vr. PAGO
CAVELIER ABOGADOS	CONSIGNACION	BANCO POPULAR	050-00110-6	54739450	07/11/2006	47,091,000.00

***** CONCEPTO *****

CANT.	RENTISTICO	CONCEPTO	TOTAL CONCEPTO
1	50005-01-01	SOLICITUDES	
		85 EXAMEN DE PATENTABILIDAD DE INVEN	388,000.00
		TOTAL :	\$ 388,000.00

SON: TRESCIENTOS OCHENTA Y OCHO MIL PESOS

RESPONSABLE :

RECIBO DE CAJA APLICADO AL EXPEDIENTE No. _____

COLO 14798 841 001 4

DIVISION DE NUEVAS CREACIONES

RADICACIÓN EXPEDIENTE No 05-59499

EL EXTRACTO DE LA PRESENTE SOLICITUD DE **PATENTE DE INVENCION**

FUE PUBLICADO EN LA GACETA DE PROPIEDAD INDUSTRIAL No **564** DE

FECHA **31 DE MAYO DE 2006** EL TERMINO HABIL SEÑALADO POR LA LEY

EXPIRA EL **31 DE AGOSTO DEL 2006**

NOTA: Dentro del plazo de los seis (6) meses siguientes a partir de la fecha de publicación en la gaceta de Propiedad Industrial, deberá solicitar y cancelar el examen de patentabilidad so pena de que la solicitud caiga en abandono, de acuerdo con lo establecido en el Artículo 44 de la Decisión 486/2000.

SE PRESENTARON OPOSICIONES POR PARTE DE TERCEROS.

SI _____

NO__ _X__ _

United States Patent [19]

Nichols

[11] 4,015,514

[45] Apr. 5, 1977

[54] APPARATUS FOR MAKING CIGARETTE FILTERS

[75] Inventor: Walter A. Nichols, Richmond, Va.

[73] Assignee: Philip Morris Incorporated, New York, N.Y.

[22] Filed: Jan. 29, 1976

[21] Appl. No.: 653,467

[52] U.S. Cl. 93/1 C

[51] Int. Cl.² A24C 5/50

[58] Field of Search 93/1 C, 77 FT; 131/264, 131/265, 266, 261 R

[56] References Cited

UNITED STATES PATENTS

3,312,151	4/1967	Molins	93/1 C
3,482,488	12/1969	Sextstone	93/1 C
3,762,281	10/1973	Burrus et al.	93/1 C

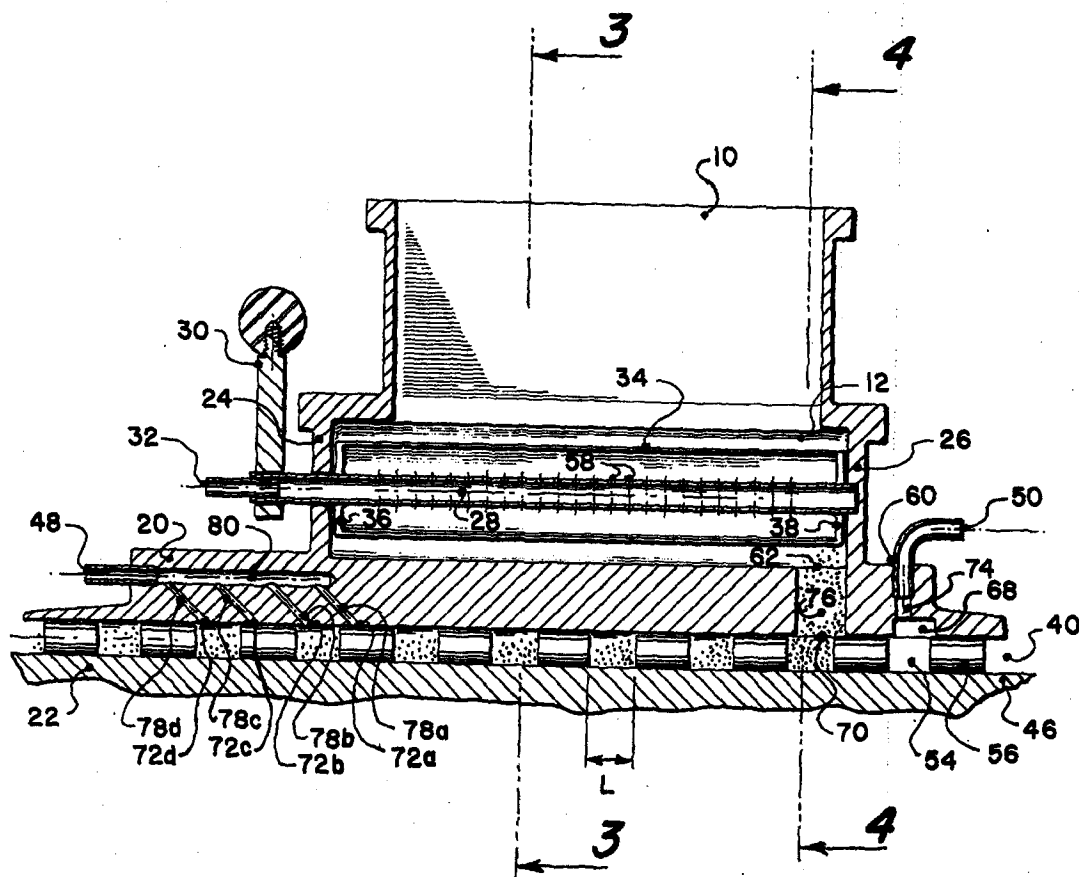
Primary Examiner—James F. Coan

Attorney, Agent, or Firm—Watson Leavenworth Kelton & Taggart

[57] ABSTRACT

Apparatus for feeding low density particulate material into spaces between filter plugs secured spacedly to filter wrap provides for fluidizing the material and transferring the fluidized material by suction into such spaces. The filter plugs and wrap are conveyed through a passage whose sidewall preferably is provided in part by an elongate generally continuous concave surface of a unitary housing having conduits extending there-through from longitudinally spaced openings in the concave surface.

15 Claims, 4 Drawing Figures



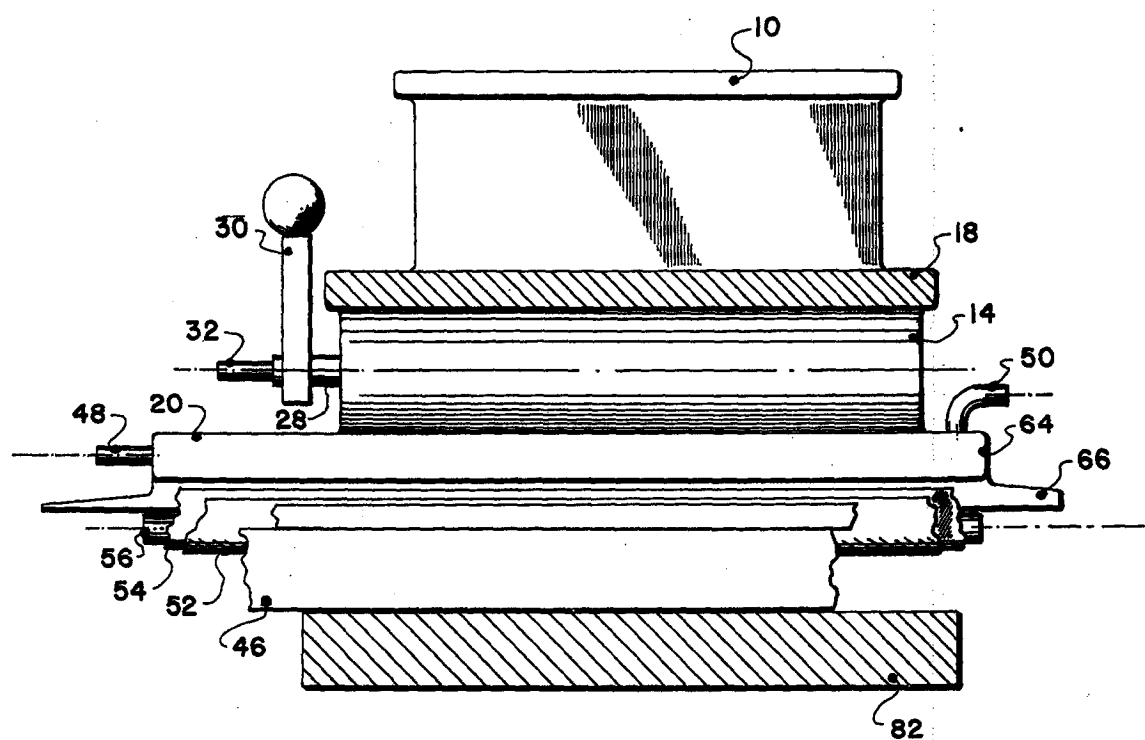


Fig. 1

22
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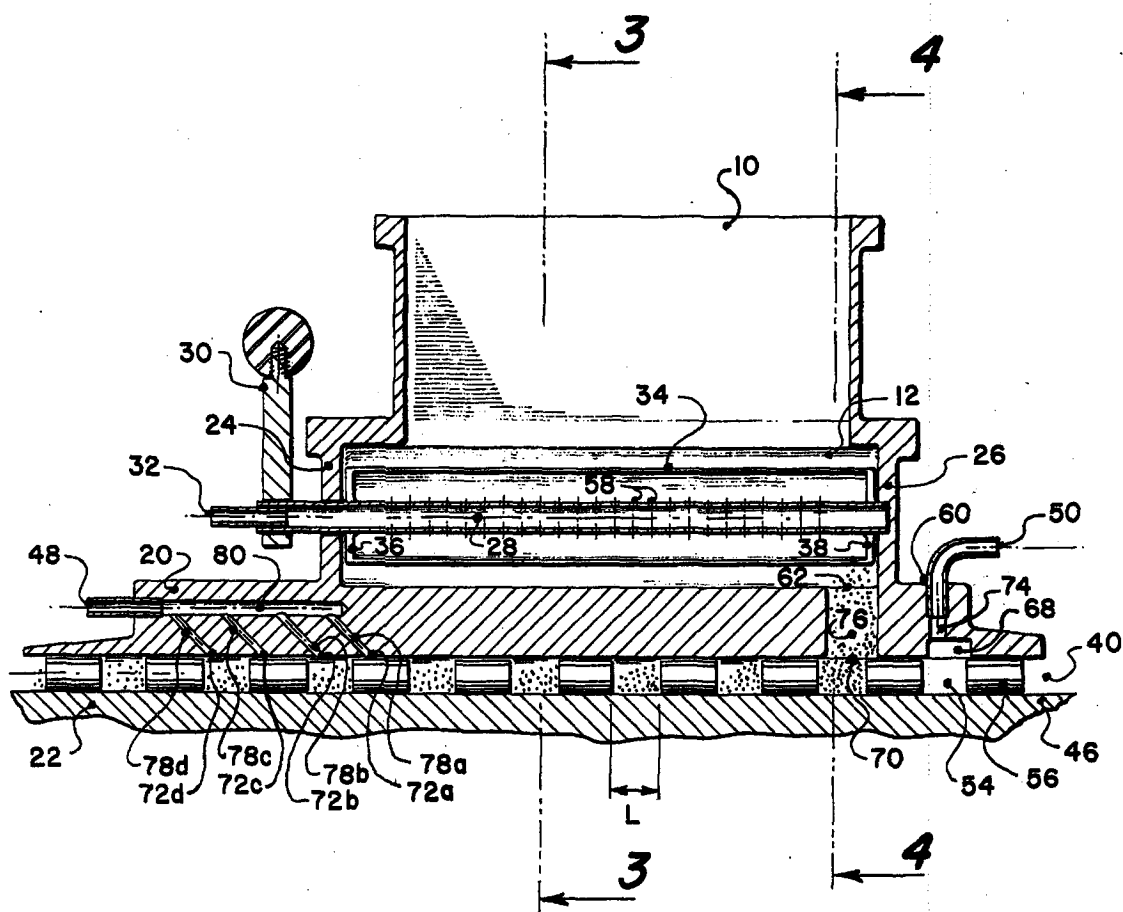


Fig. 2

99
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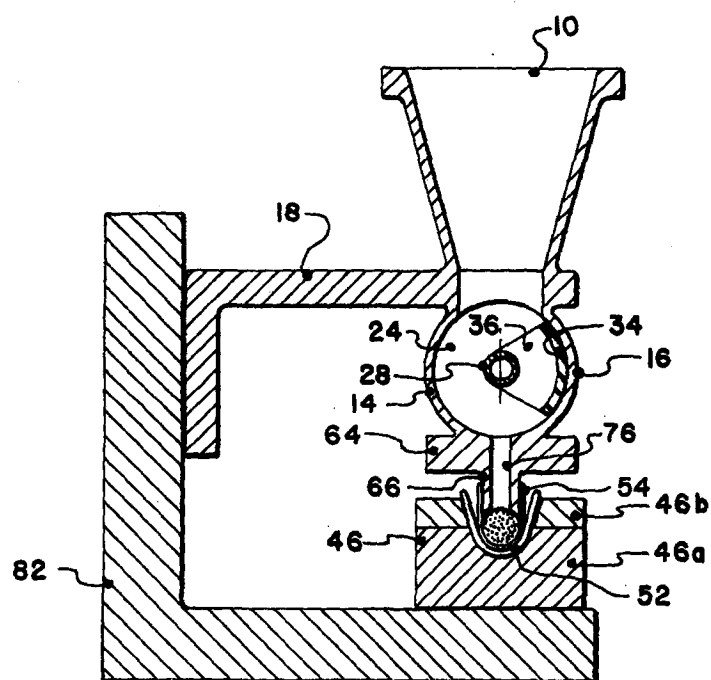


Fig. 4

APPARATUS FOR MAKING CIGARETTE FILTERS

FIELD OF THE INVENTION

This invention relates to apparatus for the feeding of particulate material into spaces between filter plugs attached to a continuous filter wrap to provide plug-filler-plug filters for cigarettes.

BACKGROUND OF THE INVENTION

Burrus et al. U.S. Pat. No. 3,762,281 discloses a type of apparatus for feeding particulate material, for example, activated carbon, from a hopper to provide plug-filler-plug cigarette filters. In such Burrus et al. apparatus an entrance passage of generally circular cross-section is defined by interfitting bottom and top members such that filter wrap may be conformed to partially encircling arrangement with filter plugs spacedly longitudinally secured to the wrap with the remaining peripheries of the plugs and spaces therebetween being enclosed by the upper wall of the entry passage. Such upper entry passage wall, provided by the top member, includes openings and ducts extending therefrom whereby suction pressure may be provided within the entry passage to assist the feeding of material into the spaces between plugs beyond the end of the entry passage, i.e., disposed in a feed station.

In the apparatus feed station, the top member defines a slot of extended longitudinal travel, exposing a succession of plugs and spaces to the discharge outlet of a hopper situated above the top member whereby the hopper contents are applied generally to such plugs and spaces to fill the spaces. Vibration is introduced in the feed station to further facilitate the feeding operation.

Beyond the feed station, the top member slot is terminated and the top passage wall is reconstituted by the top member to provide an exit passage enclosing the plugs and now-filled spaces. In such exit passage, the top member defines transverse grooves which function to trim excess material disposed atop the filter plugs and spaces. While this operation may be assisted by inclusion of a suction aperture within the exit passage, the exit passage nonetheless terminates with the wrap issuing from the top member in open relation to the plugs and filled spaces and a further station is then provided exteriorly of the top member at which station a separate suction device removes material remaining outside the spaces and otherwise interiorly of the wrap. Other structural aspects of this type of apparatus are considered in Burrus et al. U.S. Pat. Nos. 3,772,967 and 3,812,768.

While the foregoing apparatus is suitable for use in feeding free-flowing particulate material, it is not considered to be effective for the feeding of more finely-divided solids, particularly low density materials, such as microporous polyethylene. The latter materials tend to bridge, i.e., agglomerate, even in cavities, openings and passages of relatively wide dimensions. Thus, the aforementioned transverse grooves of the Burrus et al. apparatus are readily clogged by such low density material and thus rendered ineffective to further trim excess material. Further, the introduction of vibration may undesirably result in compacting bridges and hence undesirably reinforcing them.

SUMMARY OF THE INVENTION

The present invention has as its principal object the provision of apparatus for effectively feeding finely-

divided solids in the manufacture of plug-filler-plug cigarette filters.

In attaining this and other objects, the invention provides apparatus wherein hopper-contained material is fluidized prior to being drawn by suction into a passage in the apparatus for transport of filter wrap there-through. The passage, generally continuous between entry and exit ports thereof, has its encircling wall provided in part by a unitary housing having an elongate projection, a concave surface of which includes openings at first, second and third longitudinally successive locations for negatively pressurizing the passage in the vicinities of such first and third locations and for permitting entry of material in the passage at the second location. Preferably, the concave surface is generally smooth throughout its longitudinal extent and the opening therein at such second location is of longitudinal extent approximating that of a space between successive plugs.

Apparatus according with the invention as discussed below is effective for the feeding of finely-divided solids, with materials such as microporous polyethylene, where vibration cannot be used and without need for a device situated exteriorly of the referenced passage for removing excess material.

The foregoing and other objects and features of the invention will be evident from the following detailed description and from the drawings wherein like reference numerals identify like parts throughout.

DESCRIPTION OF THE DRAWINGS

FIG. 1 is a side view of material feeding apparatus according with the invention, with its support bracket cut away to show detail.

FIG. 2 is a side sectional view of the apparatus as seen from plane 2—2 of FIG. 3.

FIG. 3 is a sectional view as seen from the plane 3—3 of FIG. 2.

FIG. 4 is a sectional view as seen from the plane 4—4 of FIG. 2.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to FIG. 1, the material feeding apparatus therein may include a feed tube provided with a suitable butterfly valve (not shown) operable to provide material flow into material storage hopper 10. As shown in FIG. 2, hopper 10 opens into chamber 12 which includes opposed arcuate sidewalls 14 and 16 (FIG. 3) extending from plate 18 to upper member 20 of material feed control unit 22. Chamber 12 is closed at opposed ends thereof by end walls 24 and 26 (FIG. 2), which support fluidizing tube 28. Tube 28 extends sealably outwardly through a central opening in end wall 24 where it is secured to handle 30, the tube being fed with pressurized gas through tube 32.

Closure plate 34 (FIGS. 2 and 3) is connected to tube 28 by brackets 36 and 38 and thereby supported at such distance from tube 28 as to be disposed adjacent the interior of the walls of chamber 12. Plate 34 is repositionable within chamber 12 by rotation of tube 28 by handle 30.

Feed control assembly 22 has an elongate passage 40 (FIG. 2) therethrough bounded by opposed generally semicircular surface 42 (FIG. 3) of upper member 20 and generally semicircular surface 44 of lower member 46 of assembly 22. Assembly 22 further has tubes 48 and 50 (FIG. 2) which are connected to vacuum pres-

sure sources (not shown) for purposes discussed more particularly below. Material feed control assembly portions situated at leftward and rightward extremes thereof are adapted to suitably maintain garniture tape 52 and filter wrap 54 supported thereon in generally U-shaped configuration, i.e., whereby the filter wrap openly encircles filter plugs 56, secured to the filter wrap in longitudinally-spaced relation.

As is seen in FIG. 2, tube 28 is elongate with apertures 58 spaced longitudinally therealong and communicating with the interior hollow of the tube. The leftward end of tube 28 is open and is connected to tube 32 while the rightward end of the tube is closed. End walls 24 and 26 support tube 28 for rotation about its longitudinal axis.

Upper member 20 (FIG. 3) of feed control unit 22 provides a floor for chamber 12 and has first and second openings, 60 and 62. Opening 60 is disposed longitudinally rightward and opening 62 longitudinally leftward of chamber end wall 26. With such positioning of these openings, opening 62 serves as an outlet for chamber 12 and tube 50 may be placed in registry with opening 60 exteriorly of chamber 12. Member 20 includes a main body portion 64 and a downward projection 66, the latter having an exterior concave surface, identified above as surface 42, extending longitudinally with and providing a part of the enclosing wall of passage 40.

Surface 42, generally smooth throughout its longitudinal extent has first, second and third openings 68, 70 and 72a-d, at respective longitudinally successive locations in surface 42. The longitudinal spacing between openings 68 and 70 is at least equal to, and preferably approximates, length L of the space between successive of plugs 56.

First and second conduits 74 and 76 (FIGS. 2 and 4) extend respectively from openings 60 and 62 through projection 66 and main body portion 64 in like direction, providing communication to passage 40. Further conduits 78a-d extend from openings 72a-d through projection 66 and into main body portion 64 and conduit 80 therein which in turn communicates with tube 48.

As noted above, a plug or portion thereof will always intervene openings 68 and 70 since they are longitudinally separated by at least the distance between successive plugs. Accordingly, direct resistance-free communication between openings 68 and 70 is precluded.

Where the longitudinal extent of opening 70 is substantially equal to the longitudinal distance L (FIG. 2) between successive plugs, as is preferred, disposition of fed material generally atop the plugs is minimized.

Filled spaces and plugs advancing leftwardly of opening 70 are enclosed in first peripheral portion by partially encircling wrap 54 and in the remainder of their

peripheral expanse by close-fitting surface 42. Ultimately, the filled spaces and plugs pass under openings 72a-d, the width of which is less than that of the plugs.

With tube 28, the source of negative pressure is such that conduits 74 and 76 are pressurized negatively with respect to opening 60, but positively with respect to opening 62, a gentle suction occurs in the vicinity of openings 60 and 62. This condition may be maintained without substantial removal of material from the filter wrap.

Preferable diameters for apertures 58 are from 0.070 to 0.090 inch, though a diameter range of from 0.050 to 0.125 inch is suitable. The apertures may be spaced along tube 28 at 0.250 inch intervals with the number of apertures being about 22 in a tube of approximately 8 inches length between end walls 36 and 38, end extents of the tube being unapertured as shown in FIG. 2.

By rotation of handle 30 inwardly in FIG. 2 by one-quarter turn, closure plate 34 may be positioned to close opening 62 and thereby isolate chamber 12 from passage 40 during periods in which the apparatus is idle.

As shown in FIG. 4, support for plate 18 and member 46 may be furnished by bracket 82, with member 46 including part 46a secured to bracket 82 and part 46b atop part 46a.

Various changes may evidently be introduced in the foregoing apparatus without departing from the invention. Thus, the drawings and description of the foregoing preferred embodiment are intended in an illustrative and not in a limiting sense. The true spirit and scope of the invention is set forth in the following claims.

What is claimed is:

1. Apparatus for feeding particulate material into spaces between filter plugs secured to a continuous filter wrap comprising:

- a hopper means for containing said material and having an outlet for discharging said material;
- fluidizing means having an extent thereof supported in said hopper means in engagement with said material for issuing pressurized air through said material while said material is in said hopper means; and
- material feed control means having an elongate passage therethrough for conveying said filter wrap therethrough in partially encircling relation to said filter plugs and spaces, said material feed control means including a unitary housing part having first, second and third conduit means therein communicating with said passage at first, second and third locations respectively successively longitudinally disposed along said passage, said first location being longitudinally spaced from said second location by a distance not less than the longitudinal distance between successive of said filter plugs, said first conduit means being pressurized negatively with respect to said hopper means, said third conduit means being pressurized positively with respect to said first conduit means and negatively with respect to said hopper means, said second conduit means communicating further with said hopper means outlet.

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2. The apparatus claimed in claim 1 wherein said fluidizing means comprises an elongate hollow tubular member centrally disposed in said hopper means and defining longitudinally spaced apertures for providing issuance of pressurized air therethrough into said hopper means.

3. The apparatus claimed in claim 1 wherein said unitary housing part includes an elongate projection having a concave exterior surface forming a portion of the encircling wall of said passage, said first, said second and said third locations being on said concave surface.

4. The apparatus claimed in claim 3 wherein said concave surface defines openings therein at said first, said second and said third locations.

5. The apparatus claimed in claim 4 wherein the longitudinal extent of said opening at said second concave surface location is substantially equal to the longitudinal extent of the space between successive of said filter plugs.

6. The apparatus claimed in claim 4 wherein said first, said second and said third conduit means extend respectively from said openings in said first, said second and said third concave surface locations through said unitary housing part projection, said openings being singular at said first and second locations and plural at said third location.

7. The apparatus claimed in claim 6 wherein said unitary housing part further includes a main body portion contiguous with said projection thereof, said first and said second conduit means each comprising a single conduit extending in like direction through said main body portion and said projection, said third conduit means comprising plural conduits extending separately from said plural openings at said third location through said projection and joined with a further common conduit disposed in said main body portion.

8. The apparatus claimed in claim 7 wherein said common conduit extends through said main body portion in a direction transversely of said direction in which said first and second conduit means extend.

9. The apparatus claimed in claim 3 wherein said concave surface is a smooth surface throughout all extent thereof excepting openings therein at said first, said second and said third locations.

10. The apparatus claimed in claim 9 wherein the longitudinal extent of said opening at said second concave surface location is substantially equal to the longitudinal extent of the space between successive of said filter plugs.

11. The apparatus claimed in claim 9 wherein said first, said second and said third conduit means extend respectively from said openings in said first, said second and said third concave surface locations through said unitary housing part projection, said openings being singular at said first and second locations and plural at said third location.

12. The apparatus claimed in claim 11 wherein said unitary housing part further includes a main body portion contiguous with said projection thereof, said first and said second conduit means each comprising a single conduit extending in like direction through said main body portion and said projection, said third conduit means comprising plural conduits extending separately from said plural openings at said third location through said projection and joined with a further common conduit disposed in said main body portion.

13. The apparatus claimed in claim 12 wherein said common conduit extends through said main body portion in a direction transversely of said direction in which said first and second conduit means extend.

14. The apparatus claimed in claim 1 further including closure means for closing said hopper means outlet.

15. The apparatus claimed in claim 14 wherein said fluidizing means comprises an elongate hollow tubular member centrally supported in said hopper means for rotation therein, said tubular member defining longitudinally spaced apertures for providing issuance of pressurized air therethrough into said hopper means, said closure means being secured to said tubular member for rotation therewith.

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**SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
DIVISIÓN DE NUEVAS CREACIONES**

2020
Bogotá, D.C.,

Abogado
EMILIO FERRERO

ASUNTO	Radicación	05059499
	Trámite	011
	Evento	378
	Actuación	430
	Oficio	7852
	Folios	13

Patente de Invención	☒	Patente de Modelo de Utilidad	☐
Vía Nacional	☐		
Vía PCT (fase nacional)	☒	Cap. I	☒
		Cap. II	☐
No. Sol. Internacional	PCT/IB2002/005519		
Fecha de Presentación Interna.	19 de Diciembre de 2002		

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

1. Documentos estudiados

- | | | |
|------|--------------------------|-----------------|
| 1.1. | <u>Descripción:</u> | Folios: 21 a 35 |
| 1.2. | <u>Reivindicaciones:</u> | Folios: 36 a 38 |
| 1.3. | <u>Dibujos:</u> | Folios: 10 a 16 |
| 1.4. | <u>Prioridad:</u> | Folios: 4 a 20 |

2. Objeto de la invención

- Título de la solicitud: "PROCESO Y APARATO PARA EL LLENADO DE ALTA VELOCIDAD DE FILTROS COMPUESTOS PARA CIGARRILLOS" (folio 21).
- Objeto de la invención: la solicitud tiene que ver con un proceso y un aparato para la utilizarlos en la fabricación de filtros para cigarrillos.

Específicamente la solicitud tiene que ver con un proceso y un aparato para el llenado de alta velocidad de material particulado en diferentes cavidades separadas. Según el autor el porcentaje de llenado de las cavidades de los filtros es muy importante. Debido a que conforme el cigarrillo es colocado en

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la boca, este yace horizontalmente por lo tanto el material particulado se desplaza hacia abajo lejos de la parte superior de la cavidad, por esto se presenta una desviación no filtrada. Si se tiene en cuenta que el fluido prefiere fluir a lo largo e una trayectoria de menos resistencia, indicando de este modo que la eficiencia de la filtración del material particulado puede verse afectada por la presencia de cualquiera de dichas porciones que se encuentren a través del paso. Según la solicitud lo que se necesita es un proceso para llenar rápidamente las cavidades de filtro de carbón activado en una velocidad que excede 200 m/min.

Los pasos del proceso para llenado rápido de filtros son:

- a) Depositar segmentos del filtro fibroso en una tira portadora, definiendo cavidades entre los segmentos del filtro adyacente;
 - b) Alimentar la tira portadora con los segmentos de filtro depositados a lo largo de una trayectoria de viaje dentro de una cámara de soporte alargada;
 - c) Aplicar consecutivamente un vacío o succión adyacente a la abertura angosta, aumentando de este modo la succión y aplicando vacío al material particulado;
 - d) Llenar concurrentemente las cavidades con el material particulado sobre una longitud correspondiente a una trayectoria de viaje previamente determinada de la tira portadora;
 - e) Aplicar una porción de sello la cual encapsule los segmentos de filtro y el material particulado.
- El objeto de la solicitud definido anteriormente se clasificó de acuerdo con el IPC así: **A24D3/02; A24D3/00.**

3. De la solicitud de Patente

3.1. Reivindicaciones (artículo 30 D 486)

- La reivindicación nueve (9) hace referencia a un producto (filtro) sin embargo depende de las reivindicaciones uno a ocho (1 a 8) que se refieren a un método.

4. Determinación del Estado de la Técnica

Teniendo en cuenta que la fecha de solicitud internacional es 19 de Diciembre de 2002 se encontró el siguiente documento relevante:

Nº	Documento	Título	Fecha de publicación*
D1	US4015514	APARATUS FOR MAKING CIGARETTE FILTERS	05-04-1977

5. Análisis de patentabilidad (artículo 14 D486)

5.1 Novedad (artículo 16 D486)

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De acuerdo con la definición de novedad del Artículo 16 de la Decisión 486 de la Comisión de la Comunidad Andina y basándonos en el objeto de la invención se realizó el siguiente análisis:

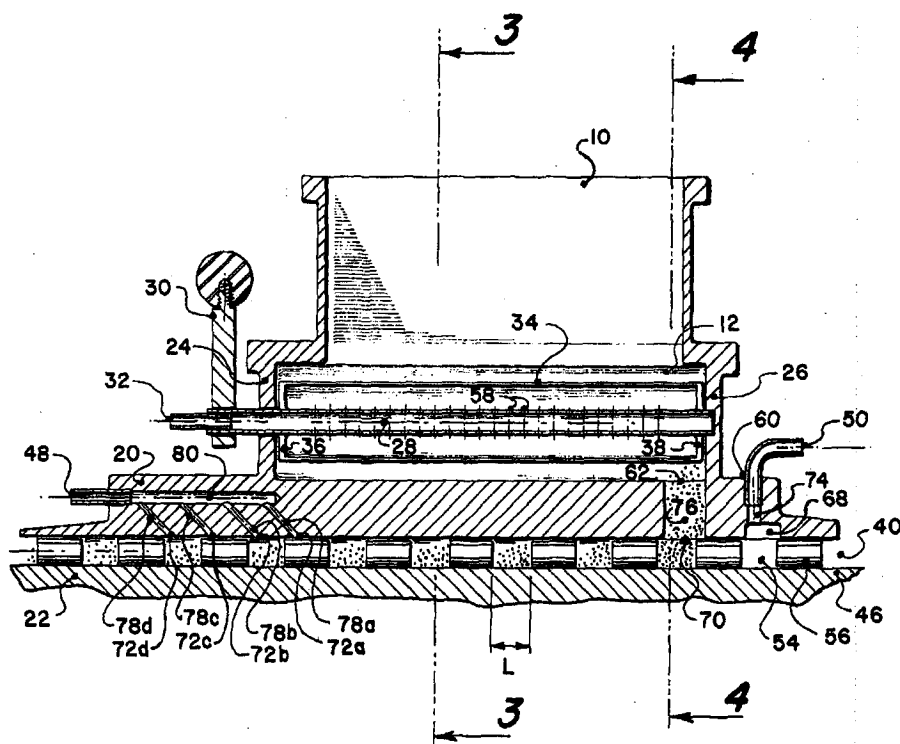
5.1.1 Respecto a la solicitud la reivindicación uno (1) (folio 36) define la invención así:

"Un proceso de manufactura de un material de filtro compuesto que comprende los pasos de:

- a) depositar segmentos de filtro fibroso en una tira portadora en una relación separada, definiendo de este modo cavidades entre los segmentos de filtro adyacentes;
- b) alimentar la tira portadora con el segmento de filtro depositado a largo de una trayectoria de viaje en un acamara de soporte alargada, la cual rodea sustancialmente la circunferencia de la tira portadora que retiene el segmento de filtro y la cual deja una abertura de llenado angosta opuesta a la abertura de llenado de particulado de un ensamble de llenado, siendo alargada la abertura de llenado angosta a lo largo de la dirección de movimiento de la tira portadora;
- c) aplicar concurrentemente vacio o succión adyacente a la abertura angosta, creando la succión un impulso hacia abajo de una corriente de alimentación por gravedad del material particulado y extrayendo el material particulado suelto;
- d) llenar consecutivamente las cavidades con el material particulado por una longitud correspondiente a una trayectoria de viaje previamente determinada de la tira portadora; y
- e) Aplicar una porción de sello la cual encapsula los segmentos de filtro y el material particulado".

5.1.2 El documento **US4015514** (mencionado en adelante como D1) se relaciona con un aparato para el llenado de las cavidades interiores de filtros para cigarrillos.

Figura 2 del documento D1.



5.1.3 Al comparar elemento por elemento de la invención **tal como esta definido en la reivindicación uno (1)**, con el documento D1, encontramos que el mencionado documento revela todos los elementos y las características de dicha reivindicación. Donde D1 contiene:

REIVINDICACION 1	D1
a) depositar segmentos de filtro fibroso en una tira portadora en una relación separada, definiendo de este modo cavidades entre los segmentos de filtro adyacentes;	SI Ver resaltes folio 76, figura 3; elemento 56.
b) alimentar la tira portadora con el segmento de filtro depositado a largo de una trayectoria de viaje en una cámara de soporte alargada, la cual rodea sustancialmente la circunferencia de la tira portadora que retiene el segmento de filtro y la cual deja una abertura de llenado angosta opuesta a la abertura de llenado de particulado de un ensamble de llenado, siendo alargada la abertura de llenado angosta a lo largo de la dirección de movimiento de la tira portadora;	SI Ver figuras 2 y 3.
c) aplicar concurrentemente vacío o succión adyacente a la abertura angosta, creando la succión un impulso hacia debajo de una corriente de alimentación por gravedad del material particulado y extrayendo el material particulado suelto;	SI Ver resaltes folio 76, figura 2-4; elementos 50, 56, 68, 70 y 40
d) llenar consecutivamente las cavidades con el material particulado por una longitud correspondiente a una trayectoria de viaje previamente determinada de la tira portadora;	SI Ver figura 2
e) aplicar una porción de sello la cual encapsula los segmentos de filtro y el material particulado	SI Ver resaltes folio 76, figura 2; elemento 40

5.1.4 De acuerdo con lo anterior, todos los elementos caracterizados y que forman parte de la solicitud “*PROCESO Y APARATO PARA EL LLENADO DE ALTA VELOCIDAD DE FILTROS COMPUESTOS PARA CIGARRILLOS*” mostrados en la reivindicaciones 1-9, ya fueron divulgados en D1, por lo cual se podría considerar que carece de novedad.

5.1.5 El capítulo reivindicatorio no muestra en forma concisa lo nuevo que se pretende aportar a la técnica ni aporta diferencias a lo ya existente. El análisis anterior permitiría afirmar que la presente solicitud no cumpliría con lo estipulado en el artículo 16 de la Decisión 486 de la Comisión de la Comunidad Andina de Naciones.

6. Conclusión:

Los requisitos de patentabilidad de la presente solicitud se encuentran afectados así:

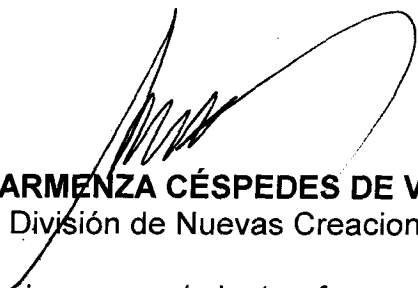
N°	Documento N°	Reivindicaciones afectadas	Requisito que afecta
D1	US4015514	1-9	NOVEDAD

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En cumplimiento del art. 85 y en concordancia con el art.45 de la Decisión 486 de la Comisión de la Comunidad Andina, se le indica que debe dar respuesta dentro del término de 60 días contados a partir de la fecha de notificación de la presente comunicación. En caso de no dar respuesta al presente requerimiento, o si a pesar de la respuesta subsistieran los impedimentos para la concesión, se denegará la patente.

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 CÉSPEDES DE VERGEL
Jefe de División de Nuevas Creaciones

El anterior requerimiento fue notificado por fijación en lista, de fecha
13 JUN. 2008

CONCEPTO TÉCNICO No.1413	EXAMINADOR TÉCNICO Código No.202086
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