

JOSE LLORED A CAMACHO & CO.

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SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



No. 02-054774- -00009-0000

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Tra. 2 PATENTES Eve. 1 REGDEPOSITO

Act. 444 RESPUESTAREQUE Folios: 36

Señor

SUPERINTENDENTE DE INDUSTRIA Y COMERCIO

DIVISION DE NUEVAS CREACIONES

E. _____ S. _____ D. _____

Re: P1.-GLOBOTECH DISPLAYS CORP.-Solicitud de Patente de Invención para "SISTEMA DE ESTACIONES DESARMABLES, ULTRALIVIANAS, PARA EXHIBIR ARTÍCULOS Y ATENDER CLIENTES". Clase A.47F.- Expediente número 02-054. 774.-

1. Me refiero al auto dictado por ese Despacho notificado por fijación en lista de 22 de Noviembre de 2007, y a mi memorial de plazo de 13 de Febrero de 2008.

2. Con el fin de dar respuesta a las objeciones expuestas por el señor Examinador en su Concepto Técnico **No. 2240** en contra de los requisitos de **Claridad** de la presente solicitud, me permito dirigir su atención a las siguientes **modificaciones**, por medio de los cuales se superan completamente dichas objeciones.

3. Nuevas Reivindicaciones.

El señor examinador objeta la claridad del capítulo reivindicatorio de la presente solicitud señalando que *"El objeto de la invención se refiere a un sistema de estaciones desarmables, pero no se definió como está comprendido dicho sistema"*.

De igual forma, el Señor Examinador manifiesta que *"El sistema esta definido por comprender al menos un módulo universal, sin embargo, no define el resto de sus componentes expresando que pueden ser opcionales"*.

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Además, el Señor Examinador resalta que se emplean términos poco precisos como "opcionalmente", "liviano", "fácil de armar", "gran solidez".

Teniendo en consideración las objeciones expuestas, es deseo del solicitante **presentar un nuevo capítulo reivindicatorio**, que reemplaza al anterior, en el cual se han eliminado los términos imprecisos y se ha clarificado el objeto de la invención.

Así, el nuevo capítulo reivindicatorio queda constituido de 31 reivindicaciones nuevas. Me permito manifestar que **este nuevo capítulo reivindicatorio no se constituye de ninguna manera en una ampliación del alcance de la invención**, toda vez que las nuevas reivindicaciones se encuentran plenamente sustentadas en la descripción tal como me permito mostrar a continuación:

- **Reivindicación 1.** Tomando en consideración la objeción realizada por el señor examinador con respecto a la reivindicación 1, en la que afirma "La reivindicación 1 no define claramente si el objeto que se quiere proteger es el Sistema de Estaciones Desarmables o el módulo universal, ya que las características novedosas de la invención en la reivindicación 1, definen el módulo universal y no el sistema de estaciones desarmables", se ha **reescrito** la reivindicación 1 para considerar primero el módulo desarmable y sus características, como base del sistema objeto de la presente invención. De esta forma, la nueva reivindicación 1 se lee:

"Un módulo universal desarmable para exhibir artículos y atender de clientes, el módulo está caracterizado por comprender:

Un tablero de base, una tapa de cubierta, y un tabique laminar que forma un cuerpo cilíndrico que se extiende verticalmente, de sección transversal de forma en general elíptica, que se extiende entre el tablero de base y la tapa de cubierta;

en donde el tabique laminar comprende una serie de elementos de madera alargados de sección transversal trapezoidal regular, dispuestos en relación de lado a lado y extendiéndose verticalmente durante el uso, los elementos de madera están unidos flexiblemente uniendo la parte más

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ancha de las caras paralelas de dichos elementos de madera a una capa de material textil;

en donde la superficie inferior de dicha tapa de cubierta y la superficie superior de dicho tablero de base tiene un área central elevada o nervadura que tiene al menos una superficie en parte elíptica que se enfrenta exteriormente perpendicular al plano de la tapa de cubierta o tablero de base, respectivamente; y

en donde dicha superficie que se enfrenta exteriormente se provee con una de dos fajas o bandas que cooperan entre sí para formar una unión tipo Velcro, la otra banda que coopera para la formación de dicha unión está distribuida a lo largo de los bordes superior e inferior, respectivamente, del tabique laminar."

Estas características principales de módulo universal, que es la base del sistema de estaciones desarmables objeto de la invención, se encuentran relacionadas en la descripción de la solicitud (páginas 3-4, 25-28).

- Reivindicación 2. Considera el caso en el cual la superficie inferior de la tapa cubierta del módulo descrito en la reivindicación 1 y la superficie superior del tablero base, tienen un área central elevada elíptica o nervadura que se enfrenta exteriormente, la cual es perpendicular al plano de la tapa cubierta o del tablero base. Esta área central elevada o nervadura se encuentra revelada en las páginas 3 y 25 de la descripción.
- Reivindicación 3. Describe el caso en el cual el módulo de la reivindicación 1 contiene además uno o más entrepaños internos. Este módulo es revelado en las páginas 5 y 27 de la descripción.
- Reivindicación 4. Considera el módulo de la reivindicación 1, en el caso en el cual tiene además una puerta que da acceso al espacio interno de dicho módulo. Esta posibilidad del módulo se muestra en la página 27 de la descripción y en la figura 1.
- Reivindicación 5. Describe el caso en el que el módulo considerado en la base de las reivindicaciones anteriores posee una tapa cubierta de

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forma elíptica o rectangular. La forma de la tapa cubierta de los módulos considerados en la invención se relacionan en la página 28 de la descripción.

- Reivindicación 6. Describe el módulo considerado en las reivindicaciones anteriores, que posee una tapa cubierta plana que se encuentra modificada para recibir múltiples aplicaciones de exhibición. Las aplicaciones de exhibición consideradas en esta reivindicación son expuestas en las páginas 11 a 15 y 34 a 40 de la descripción.

- Reivindicación 7. Considera el caso en el que el módulo descrito en las reivindicaciones anteriores cuenta con una tapa de cubierta adaptada para actuar como bandeja para la recepción de objetos, o posee una estructura modo perchero para colgar ropa, o incluye una abertura para recibir sobres, o tiene una puerta de acceso que gira, o puede recibir parasoles, parales para un aviso entre otros. Estas posibilidades de exhibición se consideran en las páginas 6,12 y 39 de la descripción y se ejemplifica en las figuras 48, 49, 50, 51 y 52.

- Reivindicación 8. Describe el módulo de la reivindicación 1 en el caso en el cual es un módulo conector. Los módulos conectores son parte fundamental del sistema de estaciones desarmables materia de la presente invención y se encuentran revelados en las páginas 7 y 28 a 32 de la descripción.

- Reivindicación 9. Considera el módulo conector descrito en la reivindicación 8, donde su tapa cubierta y tablero de base tienen ambos dos huecos cóncavos siguiendo la misma curvatura de un módulo universal elíptico. Estas especificaciones de la tapa cubierta de los módulos conectores se relacionan en las páginas 7 y 28 a 32 de la descripción y se ilustra en la figura 14.

- Reivindicación 10. Considera el sistema de estaciones desarmables para exhibir artículos y atender clientes conformado por uno o más de los módulos descritos en las reivindicaciones 1 a 7. El sistema de estaciones desarmables materia de la invención se define específicamente en las páginas 2, 5, 28 de la descripción.

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- Reivindicación 11. Describe el sistema de estaciones desarmables que comprende una pluralidad de módulos dispuestos en un círculo y unidos por uno o más módulos conectores. Esta distribución circular del sistema de estaciones desarmables es mostrada en la página 28 de la descripción e ilustrada en la figura 21.
- Reivindicación 12. Considera el sistema de estaciones desarmables dispuesto en línea recta. La disposición recta del sistema de estaciones desarmables es considerada en la página 28 de la descripción e ilustrada en la figura 19.
- Reivindicación 13. Describe el sistema de estaciones desarmables en formación rectangular u ovalada. Esta disposición del sistema de estaciones es revelada en la página 29 de la descripción.
- Reivindicación 14. Considera un módulo conector como el reclamado en la reivindicación 8 que esta adaptado para permitir la unión de tres módulos. Los módulos conectores de tres vías se enseñan en la página 30 de la descripción y en la figura 22.
- Reivindicación 15. Considera el sistema de estaciones desarmables descrito en la reivindicación 10, donde los módulos están dispuestos en una o más formaciones "Y", unidos por un módulo conector como el descrito en la reivindicación 14. Este tipo de distribución se considera en la página 31 de la descripción y se ejemplifica en la figura 23.
- Reivindicación 16. Describe el sistema de estaciones desarmables en el cual los tabiques de los módulos tienen bandas sujetadoras tipo Velcro que permiten unir y desprender los módulos conectores al paño textil que forma la superficie exterior del tabique de los módulos. Las bandas tipo Velcro se emplean para la unión de los módulos y se consideran en las páginas 3, 5 y 25 de la descripción.
- Reivindicación 17. Describe el sistema de estaciones desarmables que incluye un módulo de oreja. Los módulos de oreja son parte constitutiva del sistema de estaciones desarmables materia de la invención y se

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consideran en las páginas 32 y 33 de la descripción, y se ilustra en las figuras 28, 29, 30 y 35.

- Reivindicación 18. Considera el sistema de estaciones desarmables descrito en la reivindicación 17, donde el tablero base del módulo de oreja esta formado por elementos planos, rígidos y angostos. Las características del módulo oreja son descritas en las páginas 32 y 33 de la descripción.
- Reivindicación 19. Considera el sistema de estaciones desarmables de las reivindicaciones 17 y 18, en el caso en el que el borde superior del tabique vertical de módulo de oreja esta unido a la tapa de cubierta a lo largo del borde interno de un área marginal. Las características principales del módulo oreja son descritas en las páginas 32 y 33 de la descripción.
- Reivindicación 20. Describe el sistema de estaciones desarmables de las reivindicaciones 17 a 19, en donde la tapa de cubierta del módulo de oreja tiene una forma cuadrada y uno de los lados está formado por un hueco adaptado a la curvatura del módulo universal elíptico. Las características generales del módulo oreja son descritas en las páginas 32 y 33 de la descripción y este tipo de sistema se ejemplifica en la figura 35.
- Reivindicación 21. Considera el sistema de estaciones desarmables de las reivindicaciones 17 a 20 que comprende un módulo elíptico y una pluralidad de módulos de oreja. Esta distribución del sistema de estaciones desarmables se considera en la página 33 de la descripción.
- Reivindicación 22. Describe el sistema de estaciones desarmables, considerado en las reivindicaciones 17 a 21, que comprende un módulo elíptico y un número de módulos oreja que se extienden en dos direcciones, y que disminuyen su altura a medida que sus posiciones se alejan del módulo universal elíptico. Esta construcción del sistema de estaciones desarmables se revela en la página 33 de la descripción.
- Reivindicación 23. Describe el sistema de estaciones desarmables considerado en las reivindicaciones 17 a 22, en donde los módulos oreja poseen una banda vertical tipo Velcro que permite la unión desprendible

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de los módulos elípticos. Las características principales de unión del módulo oreja son descritas en las páginas 32 y 33 de la descripción.

- Reivindicación 24. Considera el módulo descrito en las reivindicaciones 1 a 7, que incluye en sus partes una o más marcas indicadoras para ayudar a la alineación durante el ensamble.

- Reivindicación 25. Describe un módulo como en considerado en las reivindicaciones 1 a 7 que incluye una estructura que permite la iluminación de una publicidad u objeto similar. La introducción de posibilidades de iluminación es considerada en las páginas 13, 35 y 36 de la descripción, e ilustrado en las figuras 37, 38 y 39.

- Reivindicación 26. Considera el módulo de la reivindicación 25 que contiene un panel frontal y uno posterior de forma cuadrada o trapezoidal, y paneles laterales triangulares. Este tipo de aplicaciones de exhibición se consideran en las páginas 36 y 37 de la descripción.

- Reivindicación 27. Describe el módulo considerado en las reivindicaciones 25 o 26 donde los paneles poseen un paño textil adaptado para recibir artículos de exhibición. Este tipo de aplicaciones de exhibición se consideran en las páginas 36 y 37 de la descripción y se ilustra en la figura 42.

- Reivindicación 28. Considera el módulo de las reivindicaciones 25 a 27, en el que los paneles posterior y frontal tienen entrepaños distribuidos de forma tal que puedan soportar CDs, libros u objetos similares. Este tipo de aplicaciones de exhibición se consideran en las páginas 36 y 37 de la descripción y se ejemplifica en las figuras 40 y 41.

- Reivindicación 29. Describe el módulo de las reivindicaciones 25 a 28, en el cual los entrepaños rodean totalmente la estructura superior. Este tipo de aplicaciones de exhibición se consideran en la página 38 de la descripción y se ejemplifica en la figura 44.

- Reivindicación 30. Considera el módulo de las reivindicaciones 25 a 29 que posee una estructura superior con una o más bandejas perforadas

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o no perforadas. Este tipo de aplicaciones de exhibición se consideran en las páginas 38 y 39 de la descripción y en las figuras 45, 46 y 47.

- Reivindicación 31. Considera el módulo de la reivindicación 25 con una estructura superior que contiene un panel central y dos paneles laterales que forman una estructura en forma de H. Esta clase de aplicación de exhibición se revela en las páginas 15 y 37 de la descripción y se ilustra en la figura 43.

4. Concesión de patente europea:

Como un hecho relevante, me permito manifestar a su Despacho que la Oficina Europea de Patentes recientemente ha concedido la Patente Europea equivalente a esta solicitud EP No.1 541 065, en cuyo set de reivindicaciones se basan las modificaciones introducidas al set de modificaciones de la solicitud de patente colombiana.

5. Conclusión

Finalmente, me permito manifestar que el nuevo capítulo reivindicatorio presentado es claro al reclamar el sistema de estaciones desarmables materia de la presente invención, y de esta manera se superan las objeciones que al respecto presentó el Señor Examinador.

6. Anexo me permito presentar:

(a) Recibo número 08-23,651, expedido por la Superintendencia de Industria y Comercio, que acredita el pago de las modificaciones mencionadas;

(b) Copia del nuevo capítulo reivindicatorio, **que reemplaza al anterior**, el cual se ha sido descrito anteriormente; y

(c) Copia de la Patente Europea equivalente a esta solicitud No. EP 1 541 065.

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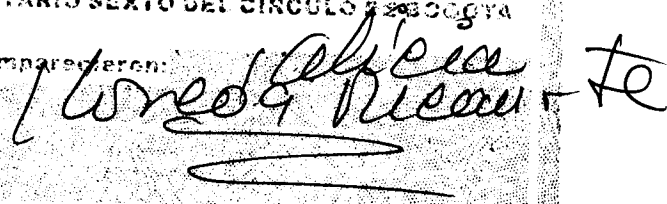
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7. En vista de lo anterior, atentamente me permito solicitar a ese Despacho, proceder a estudiar nuevamente la solicitud a la luz de las modificaciones realizadas y de los argumentos aquí expuestos y con base en ellos conceder el privilegio de patente solicitado.

Señor Superintendente,

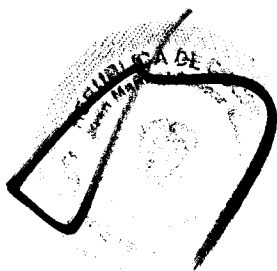

ALICIA LLOREDA RICAURTE
T.P. 53.215

NOTARIA SEXTA DE BOGOTÁ
RECONOCIMIENTO Y PRESENTACIÓN DE DOCUMENTOS
Bogotá, D.C. 27 MAR 2008
Ante mí JUAN MANUEL POTERO MEDINA
NOTARIO SEXTO DEL CÍRCULO DE BOGOTÁ

Comparecieron:

Alicia Lloreda Ricaurte

Quien (los) o quienes (las) firma (o no aparece(n))
+ 39 690 713 53215
en el presente documento es (son) (la) (los) (la) (los) y
que el contenido del mismo es cierto. En constan-
cia se firma esta diligencia


ALICIA LLOREDA RICAURTE
C.C. No. 39.690.713 de Usaquén



SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

NIT : 800176089-2

RECIBO OFICIAL DE CAJA : 08 - 23,651
FECHA : MARZO 18 DE 2008

***** CONSIGNACION *****

DEPOSITANTE	TIPO PAGO	BANCO	CUENTA	Nº. PAGO	FECHA PGO	Vr. PAGO
LLOREDA Y CIA S. A	CONSIGNACION	BANCO DE BOGOTA	062754397	2756056	18/03/2008	10,310,000.00

***** CONCEPTO *****

CANT.	RENTISTICO	CONCEPTO	TOTAL CONCEPTO
1	50005-01-03	CAMBIO DE MODALIDAD Y MODIFICA	
		12 MARCAS Y LEHAS COMERCIALES	103,000.00
		TOTAL :	\$ 103,000.00

SON: CIENTO TRES MIL PESOS

RESPONSABLE : 

RECIBO DE CAJA APLICADO AL EXPEDIENTE No. _____

REIVINDICACIONES

1. Un módulo universal desarmable para exhibir artículos y atender de clientes, el módulo está caracterizado por comprender:

Un tablero de base⁽¹⁴⁾, una tapa de cubierta⁽¹²⁾, y un tabique laminar⁽³⁰⁾ que forma un cuerpo cilíndrico que se extiende verticalmente, de sección transversal de forma en general elíptica, que se extiende entre el tablero de base y la tapa de cubierta;

en donde el tabique laminar⁽³⁰⁾ comprende una serie de elementos de madera alargados de sección transversal trapezoidal regular, dispuestos en relación de lado a lado y extendiéndose verticalmente durante el uso, los elementos de madera⁽³³⁾ están unidos flexiblemente uniendo la parte más ancha de las caras paralelas de dichos elementos de madera⁽³³⁾ a una capa de material textil;

en donde la superficie inferior de dicha tapa de cubierta⁽¹²⁾ y la superficie superior de dicho tablero de base⁽¹⁴⁾ tiene un área central elevada o nervadura^(20, 32') que tiene al menos una superficie en parte elíptica que se enfrenta exteriormente^(32') perpendicular al plano de la tapa de cubierta o tablero de base, respectivamente; y

en donde dicha superficie que se enfrenta exteriormente se provee con una de dos bandas⁽²¹⁾ que cooperan entre sí para formar una unión tipo Velcro, la otra banda⁽²²⁾ que coopera para la formación de dicha unión está distribuida a lo largo de los bordes superior e inferior, respectivamente, del tabique laminar⁽³⁰⁾.

2. Un módulo de acuerdo con la reivindicación 1, en donde la superficie inferior de dicha tapa de cubierta y la superficie superior de dicho tablero de base tienen un área central elevada o nervadura que tiene una superficie elíptica que se enfrenta exteriormente, perpendicular al plano de la tapa de cubierta o tablero de base, respectivamente.

3. Un módulo de acuerdo con la reivindicación 1, que incluye además uno o más entrepaños internos, que están fijamente unidos a la superficie interna del tabique por medio de una banda sujetadora tipo Velcro, una parte de la cual está unida alrededor del borde extremo del entrepaño, y la otra parte de la cual esta unida alrededor de la superficie curvada interna del tabique del módulo.
4. Un módulo de acuerdo con la reivindicación 1, que incluye además una puerta instalada por medios convencionales en una abertura de puerta formada entre bordes laterales del tabique y que da acceso al espacio interno del módulo.
5. Un módulo de acuerdo con cualquiera de las reivindicaciones precedentes, en donde la tapa de cubierta es de forma elíptica o rectangular.
6. Un módulo de acuerdo con cualquiera de las reivindicaciones precedentes, en donde la tapa de cubierta es esencialmente plana, o está modificada para recibir múltiples aplicaciones de exhibición.
7. Un módulo de acuerdo con cualquiera de las reivindicaciones anteriores, en donde la tapa de cubierta está adaptada para actuar como bandeja de recepción para objetos, o tiene en su superficie superior una estructura a modo de perchero para colgar ropa, o incluye una abertura para recibir sobres u objetos similares, o tiene una puerta de acceso superior que gira mediante el empleo de una bisagra, o incluye una o más aberturas destinadas a recibir un parasol o los parales para colocar un aviso, un banderín de publicidad u objetos similares, o puede incluir una o más aberturas destinadas a recibir el cableado de un equipo electrónico.
8. Un módulo de acuerdo con la reivindicación 1, que comprende un tablero de base, una tapa de cubierta, y un tabique laminar que es un módulo conector adaptado para permitir la unión de dos, tres o más módulos universales elípticos de acuerdo con cualquiera de las reivindicaciones anteriores, y cuyo tabique laminar es de menor altura que los módulos a ser conectados.
9. Un módulo conector de acuerdo con la reivindicación 8, en donde el módulo conector es un módulo conector recto o curvo, adaptado para permitir la unión

de dos módulos universales elípticos de acuerdo con cualquiera de las reivindicaciones 1 a 7, dicho módulo conector tiene una tapa de cubierta en forma alargada que puede ser recta o arqueada y un tablero de base correspondiente en forma a la tapa de cubierta, la tapa de cubierta y el tablero de base cada uno se forma con dos huecos cóncavos siguiendo la misma curvatura del tabique de un módulo universal elíptico.

10. Un sistema de estaciones desarmables para exhibir artículos o atender clientes que comprende uno o más módulos de acuerdo con cualquiera de las reivindicaciones 1 a 7 y uno o más módulos conectores de acuerdo con la reivindicación 9.
11. Un sistema de estaciones desarmables para exhibir artículos o atender clientes que comprende una pluralidad de módulos de acuerdo con cualquiera de las reivindicaciones 1 a 7, dispuestos en un círculo y unidos por uno o más módulos conectores curvos de acuerdo con la reivindicación 9.
12. Un sistema de estaciones desarmables para exhibir artículos o atender clientes que comprende una pluralidad de módulos de acuerdo con cualquiera de las reivindicaciones 1 a 7 dispuestos en una línea recta y unidos por uno o más módulos conectores rectos de acuerdo con la reivindicación 9.
13. Un sistema de estaciones desarmables para exhibir artículos o atender clientes que comprende una pluralidad de módulos de acuerdo con cualquiera de las reivindicaciones 1 a 7 dispuestos en una formación rectangular u ovalada y unidos por uno o más módulos conector curvos de acuerdo con la reivindicación 9.
14. Un módulo conector de acuerdo con la reivindicación 8, en donde el módulo conector está adaptado para permitir la unión de tres módulos, y tiene una tapa de cubierta en forma sustancialmente triangular con huecos cóncavos en sus vértices que siguen la misma curvatura del tabique de un módulo universal elíptico, y un tablero de base correspondiente en forma a la tapa de cubierta.

15. Un sistema de estaciones desarmables para exhibir artículos o atender clientes de acuerdo con la reivindicación 10, que comprende tres o más módulos de acuerdo con cualquiera de las reivindicaciones 1 a 7 dispuestos en una o más formaciones "Y", los módulos de cada formación "Y" están unidos por un módulo conector de acuerdo con la reivindicación 14.
16. Un sistema de estaciones desarmables para exhibir artículos o atender clientes de acuerdo con cualquiera de las reivindicaciones 10, 11, 12, 13 o 15, en donde los tabiques de los módulos conectores tienen una banda sujetadora vertical tipo Velcro en sus bordes laterales, que permite la unión desprendible de los módulos conectores al paño textil que está en la superficie exterior de los tabiques de los módulos universales elípticos.
17. Un sistema de estaciones desarmables para exhibir artículos o atender clientes que comprende un módulo elíptico de acuerdo con cualquiera de las reivindicaciones 1 a 7 y un módulo de oreja, el módulo de oreja comprende un tablero de base, una tapa de cubierta, y un tabique laminar que forma un cuerpo cilíndrico que se extiende verticalmente, de al menos sección transversal parcialmente elíptica, que se extiende entre el tablero de base y la tapa de cubierta;

la altura del tabique del módulo de oreja es de menor altura que el tabique del módulo universal elíptico; y

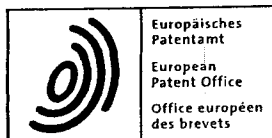
la tapa de cubierta y el tablero de base del módulo de oreja son formados en un extremo con un hueco para corresponder con la forma externa del tabique del módulo universal elíptico.
18. Un sistema de estaciones desarmables para exhibir artículos o atender clientes de acuerdo con la reivindicación 17, en donde el tablero de base de dicho módulo de oreja está formado por elementos planos, rígidos angostos que se extienden unidos fijamente a lo largo del borde inferior de dicho tabique, y un tabique de fondo rígido con su área de borde lateral firmemente soportada en la parte superior de dichos elementos planos, rígidos angostos.

19. Un sistema de estaciones desarmables para exhibir artículos o atender clientes de acuerdo con la reivindicación 17 o reivindicación 18, en donde el borde superior del tabique vertical del módulo de oreja está unido a la tapa de cubierta a lo largo del borde interno de un área marginal que se extiende a lo largo entre el borde superior de dicho tabique vertical y que el borde lateral exterior de dicha tapa de cubierta.
20. Un sistema de estaciones desarmables para exhibir artículos o atender clientes de acuerdo con cualquiera de las reivindicaciones 17 a 19, en donde la tapa de cubierta del módulo de oreja tiene una forma generalmente cuadrada, uno de los lados está formado con un hueco configurado para ser adaptado a la curvatura final del tabique de un módulo universal elíptico.
21. Un sistema de estaciones desarmables para exhibir artículos o atender clientes de acuerdo con cualquiera de las reivindicaciones 17 a 20, que comprende un módulo universal elíptico y una pluralidad de módulos de oreja dispuestos en una columna que se extiende desde el módulo universal elíptico, en donde las alturas de los módulos de oreja disminuyen en la medida en que su posición en dicha columna es más lejana del módulo universal elíptico.
22. Un sistema de estaciones desarmables para exhibir artículos o atender clientes de acuerdo con cualquiera de las reivindicaciones 17 a 21, que comprende un módulo universal elíptico, y un número de módulos de oreja dispuestos para extenderse en una primera dirección desde el módulo universal elíptico y un número de módulos de oreja dispuestos para extenderse en una segunda dirección, opuesta a dicha primera dirección, desde el módulo universal elíptico, y en donde las alturas de los módulos de oreja disminuyen en la medida en que sus posiciones son más lejanas del módulo universal elíptico.
23. Un sistema de estaciones desarmables para exhibir artículos o atender clientes de acuerdo con cualquiera de las reivindicaciones 17 a 22, en donde los bordes laterales de los tabiques de los módulos de oreja tienen una banda vertical tipo Velcro en sus bordes laterales, que permite la unión desprendible de los módulos de oreja al paño textil que está en la superficie exterior de los tabiques de los módulos universales elípticos.

24. Un módulo desarmable para exhibir artículos y atender de clientes de acuerdo con cualquiera de las reivindicaciones 1 a 7, en donde la tapa de cubierta, y el tablero de base o tabique incluye una o más marcas indicadoras para ayudar a la alineación de las partes del módulo durante el ensamble.
25. Un módulo para un sistema de estaciones desarmables para exhibir artículos o atender clientes de acuerdo con cualquiera de las reivindicaciones 1 a 7, que comprende además una estructura superior que comprende un panel frontal, un panel posterior, uno o ambos de los cuales son de material transparente, y dos paneles laterales, la estructura superior incluye además una o más fuentes de luz en el espacio interno formado por los paneles frontal, posterior y laterales, que permiten la iluminación de una publicidad u objeto similar colocado en uno de los paneles posterior y frontal.
26. Un módulo de acuerdo con la reivindicación 25, en donde el panel frontal y el panel posterior son de forma cuadrada o trapezoidal, y los paneles laterales son triangulares y están soportados por los paneles frontal y posterior.
27. Un módulo de acuerdo con la reivindicación 25 o reivindicación 26, en donde los paneles posterior y frontal tienen un paño textil adaptado especialmente para recibir los artículos de exhibición.
28. Un módulo de acuerdo con cualquiera de las reivindicaciones 25 a 27, en donde los paneles posterior y frontal tienen entrepaños localizados a distancias determinadas para ser capaces de soportar CDs, libros u objetos similares.
29. Un módulo de acuerdo con cualquiera de las reivindicaciones 25 a 28, en donde los paneles posterior, frontal y laterales tienen entrepaños que rodean totalmente la estructura superior.
30. Un módulo de acuerdo con cualquiera de las reivindicaciones 25 a 29, que tiene una estructura superior que comprende una o más bandejas perforadas o no perforadas.

31. Un módulo de acuerdo con la reivindicación 25, que tiene una estructura superior que comprende un panel central adaptado en surcos verticales centrales de dos paneles laterales que forman una estructura en forma de "H" en vista de plano, y una pluralidad de entrepaños adaptados en surcos dispuestos en las caras internas de los paneles laterales para formar una serie de estantes, los paneles laterales tienen también una pluralidad de entrepaños en sus caras exteriores.

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(54) SYSTEM OF ULTRA LIGHT-WEIGHT DEMOUNTABLE STATIONS, FOR EXHIBITING ARTICLES AND ATTENDING CUSTOMERS

SYSTEM AUS ULTRALEICHTEN ZERLEGBAREN KONSTRUKTIONEN ZUR DARBIETUNG VON GEGENSTÄNDEN UND ZUR BEDIENUNG VON KUNDEN

SYSTEME DE PRESENTOIRS DEMONTABLES ULTRA-LEGERS, PERMETTANT DE PRESENTER DES ARTICLES ET D'ACCUEILLIR DES CLIENTS

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Description

[0001] The present invention is related to a dismountable ultra light system for constructing stations to exhibit commercial items and assist customers, wherein the finished station structure requires no interlocking mechanical elements for its construction, so that parts of each station may be assembled and dismantled manually, without the need to use special tools. According to the system of the invention, exhibit and customer assistance stations including a number of individual universal modules that may be different or with the same configuration and/or size can be constructed, so that it is possible to associate in a given station a number of said modules to provide an exhibit station of higher surface area and of different and diverse external decorative aspects. In any of their modes, each model of the article exhibition and customer assistance station according to the present invention is light, very solid, easy to assemble and dismantled to be comfortably packed, which condition makes transport and storage easy.

[0002] Exhibition stands usually in commercial use have been constituted by a structure, generally metallic, suitable to support horizontally on it a flat board to satisfy basically the functions of a table. On that board there are disposed portable exhibitors such as trestles, to exhibit newspapers and magazines. In other way, for support, the commerce has used enlarged metallic structures having sloping support surfaces converging to a central axis, or structures having an upper flat surface directed in circle arc or in ellipsoidal way.

Although it can be said that among such designs from the previous art, there are some ones which offer decorative structures, their mechanical characteristics, such as those related to their weight, and specially related to their properties regarding handling operations as those related with their assembling and dismantling, and with their feasibility to be stored and transported, do not result satisfactory at all, mainly because to carry out said operations, it is necessary to keep in mind weight of the structure and also the use of tools. Also, for the user of this type of exhibitors from the previous art, their design is not beyond than that offered by the manufacturer, impeding him from creating new arrangements and configurations of exhibition stand, than under criteria of the user, would highlight more his product to exhibit, and to be more attractive for the public.

[0003] US-A-6 027 188 describes a demountable exhibition stand in which a flat tabletop has rounded end edges, and is supported on two spaced pillar. Each pillar is of generally rigid parallelepipedal shape with the tabletop extending across the upper ends of the two pillars and extending outwardly beyond the pillars. To provide an overall decorative appearance, a curtain is attached to the edge of the tabletop, the curtain hanging down to the floor in order to conceal the pillars. Since the pillars are rigid structures, dismantling of the exhibition stand does not appreciably reduce its volume for transport.

[0004] Keeping in mind the previous description, a purpose of the present invention consists in providing an ultra light dismountable system for constructing stations to exhibit commercial items and assist customers and addressing above mentioned disadvantages.

[0005] According to the present invention, there is provided a module for a dismountable exhibition or customer assistance system, as defined in claim 1.

[0006] A further aspect of the invention provides a straight or curved connecting module adapted to allow union of two elliptical modules, as defined in claim 9.

[0007] A yet further aspect of the invention provides a dismountable exhibition or customer assistance station system comprising one or more elliptical modules and one or more connection modules, as defined in claim 10.

[0008] The universal module which makes part of the dismountable, ultra light stations system to exhibit items and assist customers of the present invention is formed by a vertical body of generally elliptical cross section, which is provided with a rigid cover or lid plate, e.g., from Formica (Registered Trade Mark), which is provided in its margin edge zone of the inferior surface with a nervure or ledge parallel to the edge, and around the wall projected vertically down of said ledge, it is fixed attached to one of the two strips of Velcro closing (Registered Trade Mark), also known as hook and loop type fasteners, the other strip of the Velcro closing being attached along the internal surface of the upper cross section edge of a laminar flat body, formed by a series of elongated elements of wood joined each other in side to side relation by a glue able to form a flexible union between said two contiguous elements, so that by executing pressure on said strips facing the Velcro closing, a stable and firm union will be formed between the upper horizontal external edge of said laminar flat body, formed by the series of elongated wood elements, mentioned before, and the lid or cover member of said universal module.

[0009] For purposes of the description, the flexible flat structure formed by the series of elongated wood elements attached each other in relation to the side to side by a binding able to form a flexible union between contiguous elongated elements, and with its major base adhered to a textile material cloth, will be named along the present description with the designation "Tensaflex". Wood elongated elements forming said flat unit have a trapezoidal cross section, of parallel bases, with their lower base directed to the interior of the room formed, and they are attached each other in side to side relation by an adhesive able to form a flexible union; through the higher base of each said elongated wood element, they are attached by an adhesive to a clothing or rug of textile material. It will be observed that given the trapezoidal shape of the cross section of said elongated elements, along them, it is defined between each pair of them, an empty space in angular shape, which allows a turn degree to close them each other from the lateral walls oblique to the adjacent elongated elements. As a consequence of the above, the Tensaflex material mentioned

previously may be adapted to form constructions of curved walls and be adapted to form different curvature arches.

[0010] The vertical body of the universal module deposit, which has a cross section generally in elliptic form, may include a variety of objects that are adapted to the shape of said vertical body of deposit, such as in example a polystyrene refrigerator of cross section in general elliptic form. However, in the construction of the universal module that makes part of the dismantlable, ultra light stations system to exhibit items and assist customers with the present invention, it may be included one or more internal cross section partition walls of shelves, which are attached fixedly to the internal wall of the vertical layer of Tensaflex by a Velcro joint formed mediating the cooperation of a Velcro joint band, attached around the external body of the shelves, with a respective Velcro strip fixed at the height considered as convenient, around the curved internal surface of the layer of Tensaflex forming the side wall of the universal module. The layer of Tensaflex forming the side wall of the universal module is provided of a rectangular opening along its height, through which provides access to the interior space of storage of said universal mode. In said rectangular opening, it is normally installed a door by conventional means. Shelves installed cross sectionally to different levels along the height of the universal mode have an edge section cut in a straight line of length substantially equal than the width of said opening of the door to which cited shelves edge is facing.

[0011] Dismantlable, ultra light stations system to exhibit items and assist customers of the present invention may comprise only the universal module; or it may comprise only or the universal module and multiple applications of exhibition, or several application of exhibitions implying the vertical growth of the system; or it may comprise the universal modules, and/or connecting modules and/or era modules, and/or multiple exhibition applications, and assists customers implying the horizontal growth of the system or the vertical growth of the system, of a mixture thereof.

[0012] The lid or cover making part of the universal module described before, is in general of elliptic form. However, said lid or cover may be also in different shapes or configurations. Thus, in example, the lid or cover may be elliptic or rectangular.

[0013] The lid or cover of the universal module, or connector module, or ear module may be essentially flat, or be modified to receive multiple exhibition applications requiring said modification. Such modification of the lid or cover of the universal module, or connector module, or ear module, may consist on being adapted to act as a reception tray of objects, or it may have in its upper surface, a coat rack type structure to hang clothing. The lid or cover of the universal mode, or connector module, or ear module may also include an opening to receive envelopes or similar objects, or has an upper access door turning freely by the use of a hinge.

[0014] In a particularly preferred mode, the lid or cover of the universal mode, or connector module, or ear module making part of the system of the present invention, includes one or more openings intended to receive a parasol or the beams to place advertisement, an advertisement pennant or similar objects. Also, the lid or cover of the universal mode, or connector module, or ear module may include one or more openings intended to receive cabling of electronic equipment, such as in example, a computer.

[0015] In order to provide an exhibiting structure and assist customers, the system of the present invention envisages to install one or more specially configured connecting modules, between the universal modules described above, or between ear modules, or between mixtures thereof. The present invention comprises several types of connecting modules allowing to join two, three or more universal modules or ear modules, so that the system may grow in horizontal way. For purposes of the description of the present invention, said modules are designated as two-way connecting, three-way connecting modules or more.

[0016] For the case of two-way connecting modules, straight or curved ones, each one of said connecting modules is formed by a board of cover lid in elongated shape that may be straight or that may be extended along a curvature arch which is formed, and follows the same curvature in which universal modules or ear modules are formed and included in a exhibition station arranged in way of circle.

[0017] Base board of the two-way connecting module used between two universal modules or between two ear modules or between mixtures thereof, arranged in a station, is of elongated shape that extends longitudinally in straight line, or along a curvature arch formed to the curvature of the opposite parallel sides of the board of cover lid, when the exhibiting station has a configuration in mode of circle. Along the exterior longitudinal edges opposite to the base board of the two way connecting module there is a rabbet, which is used to the purpose indicated below.

[0018] In case of three-way connecting modules, allowing to join three universal modules or three ear modules of mixtures thereof, each of said connecting modules is formed by a board of cover lid in irregular shape in way of triangle that instead of vertices or tips, it has curvature arches which are formed and follow the same curvature than the side wall of the universal modules, or the ear modules included in the exhibiting station.

[0019] The base board of the three-way connector module used between three universal modules or between three ear modules or mixtures thereof, arranged in a station, has irregular shape in way of triangle that instead of vertices or ends, it has curvature arches which are formed and follow the same curvature than the side wall of the universal modules, or the ear modules included in the exhibiting station. Along the exterior opposite longitudinal edges opposite of the base board of the

three-way connector module, there is a rabbet, which is used to the purpose indicated below.

[0020] In case of both two-way connecting modules and three-way connecting modules, or more way modules, vertical side walls of the connecting module - which are two in case of two-way connecting module and three for three-way connecting module - are formed, each by a vertical layer of material designated as Tensaflex, described here, which upper and lower horizontal edges are joined by a Velcro union formed between the cooperative Velcro strips arranged both along said internal horizontal edges, upper and lower, of the layer of Tensaflex, and along the rabbets arranged in said external longitudinal edges of the cover lid board, as well as along each rabbet disposed along the before mentioned opposite external longitudinal edges, of the base board of the connecting module.

[0021] To form the exhibiting stations and to assist customers, the system of the present invention uses as basic elements above described universal modules, and/or above mentioned connecting modules, and/or ear modules, and/or multiple exhibiting applications. To achieve this objective, side walls of connecting modules have a vertical band of Velcro in their side ends, which allow to join in detachable way, connecting modules to the textile cloth that are in the exterior surface of the side wall of the universal modules or the ear module. By alternating connecting modules between the universal modules or between ear modules, an user may create a plurality of designs and shapes of exhibiting station which goes from a simple set composed by two universal modules and a two-way connecting modules joining said universal modules, to much more complex exhibiting stations that use several universal modules joined by straight or curved, two-way or three-way connecting modules, forming stations circular, oval, rectangular with curved vertices, in Y, and any other type of exhibiting station that the user desires.

[0022] The system according to the present invention also envisages the provision of means to extend, either in straight line, arched line or any other arrangement, the installation of universal modules integrating said exhibiting stations, and to assist customers. This way, to provide an exhibiting station with their modules installed in straight line, curved, in Y, or any other arrangement, the present invention envisages to install along one or both sides of the symmetry longitudinal axis of any of the universal modules in the exhibiting station formed, one or a series of ear forming modules in straight line, which heights reduces as the installation places is far from any of the universal modules of the formed exhibiting station.

[0023] Ear modules consist of units formed by a cover lid board which has its external contour line of posterior end formed along a portion of the curvature arch of the end of an ellipse, and its contour line of frontal opposite end formed at the exterior surface of the vertical side wall of the universal module. The cover lid board may present a contour in general elliptic way, or in a general rectan-

gular or square shape.

[0024] Side vertical wall of each ear module is formed by a continuous section of the material designated as Tensaflex, described above. As indicated before, height of the ear module diminishes progressively as said module, in its installation place, is far from said universal module. Bottom wall of each ear module is formed by a rigid material plate, i.e., pressed wood. Said bottom wall presents in one of its ends, a grooved area along a curvature arch, that under installed condition, is adapted and adjusted to the curvature arch of the end exterior surface of the vertical side wall of the universal module.

[0025] An exhibiting station may include a plurality of ear modules with progressively diminishing heights as said modules, in their installation place, are far from said universal module.

[0026] Side ends of the side wall of ear forming modules have a vertical strip of Velcro, which allows to join in detachable form, the ear forming modules to the textile cloth that is in the exterior surface of the side walls of universal modules giving higher stability to the exhibiting station formed by said ear modules.

[0027] Universal modules, or connecting modules or ear forming modules may use in their assembling signals or guide points on the cover boards, base boards and side walls indicating the user the most appropriate way to join different pieces of modules integrating the system of the present invention.

[0028] Another element making part of the present invention consist in multiple exhibiting applications that may be used in the dismountable, ultra light stations system to exhibit items and assist customers of the present invention. Said multiple exhibiting applications may be selected from the group consisting of showcase modules, light modules to place advertisement or similar objects that may be lighted, parasols, advertisement pennants, CD exhibitors, book exhibitors, diverse items exhibitors, perforated and non-perforated trays holding each other or slopping by a supporting element joined to the tray by a hinge. These multiple exhibiting applications are generally placed on the flat cover of the universal module, or the connector module of ear module, or on the cover to another multiple application module, without the cover suffering from any modification. Nevertheless, it is also envisaged that these multiple exhibiting applications are supported on a modified cover of the universal module, of the connecting module or ear module, or on the modified cover of another multiple exhibiting application, which may exhibit grooves, have Velcro strips or similar adaptations.

[0029] One of the preferred multiple exhibiting applications consists on a showcase module in elliptical general form, which is provided of a cover lid and, vertically far from it, of a base board, having in the upper surface of said base board, toward inside and around their external edges, a grooves receiving two side beams in way of posts, which also have grooves adapted to receive one, two or more boards of shelves of transparent ma-

terial, each with its respective separator, and an upper beams joining both beams to give stability to the structure and to support the cover lid of the showcase module to which it is attached by a Velcro type union or any other type of union, having said showcase module a frontal panel or transparent material and two posterior panels of transparent material matching the groove of the base board, being said posterior panels separated each other to define a door opening.

[0030] Above described showcase module includes also a door installed by conventional means in the door opening giving access to the inside space of storage of the showcase module.

[0031] Another of the preferred multiple exhibiting applications consists on a light advertisement to place advertisement with a vertical body of deposit of cross section in general elliptic form, which is provided of a cover lid and, vertically separated from it, of a base board, having in the upper surface of said base board, toward the center and around their external edges, a groove receiving two side beams in way of posts, united in the upper part by a beams giving stability to the structure and supporting the cover lid of the light module to which it is attached by a Velcro type union or any other type of union. The base board is also adapted to install one or more bulbs or similar objects, and having said light modules a frontal panel and a posterior panel, both or only one of transparent material matching in the groove of the base board. Said panels allow to place any type of advertisement or similar object that may be lighted.

[0032] Another of the preferred multiple exhibiting applications consist on a CD exhibitor having a structure that may match in a groove or that may be adhered to the lid or cover of rectangular type of a universal module as that described before, by a Velcro union strip. Said CD exhibitor generally comprises a frontal panel and a posterior panel that are supported either by pressure each other or they join in their upper part by a Velcro union strip. This exhibitor also includes two side panels with form of triangle held by frontal and posterior panels by pressure executed on them, or attached to said posterior and frontal panels by a Velcro type union. These posterior and frontal panels generally have shelves that allow them to support CD's or similar objects.

[0033] Another of the preferred multiple exhibiting applications consist on a book or similar objects exhibitors having a structure that may match in a groove or that may be adhered to the lid or cover of rectangular type of a universal module as that described before, by a Velcro union strip. Said book or similar object exhibitor generally comprises a frontal panel and a posterior panel that are supported either by pressure each other or they join in their upper part by a Velcro union strip. This exhibitor also includes two side panels with form of triangle held by frontal and posterior panels by pressure executed on them, or attached to said posterior and frontal panels by a Velcro type union. These posterior and frontal panels generally have shelves that allow them to support books

or similar objects.

[0034] Another of the preferred multiple exhibiting applications consist on a diverse items exhibitor having a structure that may match in a groove or that may be adhered to the lid or cover of rectangular type of a universal module as that described before, by a Velcro union strip. This exhibitor comprises a central panel matching central vertical groove of two side panels, forming a "H" shape structure from a upper view, and a plurality of shelves matching in horizontal way, in corresponding grooves specially arranged in the internal part of side panels to form a series of racks to receive any type of items which adapt to the size of said racks.

[0035] Another of the preferred multiple exhibiting applications consist on perforated and no perforated trays, being said multiple exhibiting application, a structure composed by frontal, posterior and side trays which are supported either by pressure each other or they join in their upper part by a Velcro union strip, or being said multiple exhibiting application, a structure composed by a single tray which is slopped by a supporting element attached to said tray by a hinge that can be supported in a groove or that may be adhered to a Velcro strip specially arranged on the rectangular lid or cover of the universal module.

Brief Description of the Drawings

[0036] Other purposes characteristics and advantages of the present invention will become evident according to the following detailed description regarding the accompanying drawings, wherein:

Fig. 1 is a view in perspective of a universal module which makes part of the exhibit stations and to assist customers, of the present invention;

Fig. 2 is a plant view of the internal face of a layer of the material designated as "Tensaflex", provided in its perimeter edge area of a cooperating band to form a "Velcro" union;

Fig. 3 is a rising view illustrating in schematic way the arrangement of strip sections of "Velcro" union for the join of cross section partition walls in a flat section of Tensaflex; of the type used to form the side wall of the universal module;

Fig. 4 is a cross section view through a layer of Tensaflex material illustrated in Fig. 2;

Fig. 5 is a plant view of a cover lid of flat elliptic type, of a universal module as that illustrated in Fig. 1;

Fig. 6 is a longitudinal cut view, taken along the VII-VII line in Fig. 5, of a cover lid of flat elliptic type of a universal module as that illustrated in Fig. 1;

Fig. 7 is a plant view of the base board of a universal module as that illustrated in Fig. 1;

Fig. 8 is a longitudinal cut view, along the IX"-IX" line of the base board illustrated in Fig. 7;

Fig. 9 is a plant view, from the inferior side, of a shelf board as used in a universal module as that illustrated in Fig. 1;

Fig. 10 is a longitudinal cut view, taken along the IX-IX line in Fig. 9, of the entrepaño board illustrated in Fig. 9;

Fig. 11 is a plant view, from the upper part of a universal module provided of a cover board in rectangular shape 12';

Fig. 12 is a longitudinal cut view, taken along the XVI"-XVI" line in Fig. 11;

Fig. 13 is a perspective view showing a curved two-way connecting module used according to the invention, to provide an exhibiting station with its universal modules arranged on line or in a circular installation;

Fig. 14 is a perspective view showing a straight two-way connecting module used according to the invention, to provide an exhibiting station with its universal modules arranged on line or in any other type of configuration;

Fig. 15 is a plant view, of the cover board of the connecting module illustrated in Fig. 13;

Fig. 16 is a vertical view, taken along the XIX-XIX line of the cover board illustrated in Fig. 15;

Fig. 17 is a plant view of the base of the connecting module illustrated in Fig. 13;

Fig. 18 is a vertical rising view, taken along XIX'-XIX' line of the base board illustrated in Fig. 17;

Fig. 19 is a perspective view of a exhibiting station and to assist customers according to the invention, teaching the use of a straight two-way connecting module as that illustrated in Fig. 14, to join two universal modules as those illustrated in Fig. 1, forming a simple exhibiting unit;

Fig. 20 is a perspective view of a exhibiting station and to assist customers according to the invention, teaching the use of a curved two-way connecting module as that illustrated in Fig. 13, to join two universal modules as those illustrated in Fig. 1, forming a simple exhibiting unit;

Fig. 21 is a perspective view of a more complex exhibiting station and to assist customers comprising universal modules joined by two-way connecting modules, of curved shape, arranged in a circular installation;

Fig. 22 is a perspective view showing a three-way connecting module used according to the invention, to provide a Y shape exhibiting unit;

Fig. 23 is a perspective view of a exhibit station and to assist customers according to the invention, teaching the use of a three-way connecting module as that illustrated in Fig. 22, to join three basic units as those illustrated in Fig. 1, forming a Y shape exhibiting unit;

Fig. 24 is a perspective view of a era module useful to provide a exhibit station and assist customers according to the mode of the invention envisaging additionally to the connector module, the use of said ear modules with universal modules in an exhibiting station as those illustrated in Figs. 19, 20, 21 or 23;

Fig. 25 is a plant view of the cover board of an ear module as that illustrated in fig. 24, useful to be installed in an exhibit station and to assist customers, including universal modules and one or more connecting modules;

Fig. 26 is a vertical view, taken along XIV-XIV view, of the cover board illustrated in Fig. 25;

Fig. 27 is a vertical rising view of the cover board illustrated in the plant view in Fig. 25;

Fig. 28 is a perspective view of an ear module as that illustrated in Fig. 24, useful to be installed in an exhibit station and to assist customers according to the invention; which lid or cover is of rectangular shape;

Fig. 29 is a plant view of the rectangular cover of the ear module illustrated in Fig. 28 to install an exhibit station, and to assist customers according to the invention;

Fig. 30 is a vertical rising view of the rectangular cover showed in Fig. 29;

Fig. 31 is a plant view of the base board of the ear module illustrated in Fig. 24;

Fig. 32 is a longitudinal view, taken along the XXI-XXI line in Fig. 31;

Fig. 33 is a cross section view, taken along the XXII-XXII line in Fig. 31;

Fig. 34 is a perspective view of an exhibit station and to assist customers according to the invention, teaching the use of an ear module as that illustrated in Fig. 24, when it is attached to a universal module as that illustrated in Fig. 1, forming a simple exhibit station;

Fig. 35 is a perspective view of an exhibit station and to assist customers according to the invention, teaching the use of an ear module as that illustrated in Fig. 28, when it is attached to a universal module as that illustrated in Fig. 1, with rectangular lid or cover forming a simple exhibit station;

Fig. 36 is a perspective view of a showcase module acting as one of the multiple exhibiting applications making part of the system of the present invention;

Fig. 37 is a perspective view of a preferred mode of a light module acting as one of the multiple exhibiting applications making part of the system of the present invention;

Fig. 38 is a perspective view of a another preferred mode of a light module acting as one of the multiple exhibiting applications making part of the system of the present invention;

Fig. 39 is a perspective view of the light module illustrated in Fig. 38 without frontal panel, and showing internal bulbs;

Fig. 40 is a perspective view of a CD's or similar objects exhibitor acting as one of the multiple exhibiting applications making part of the system of the present invention;

Fig. 41 is a perspective view of a book or similar objects exhibitor acting as one of the multiple exhibiting applications making part of the system of the present invention;

Fig. 42 is a perspective view of an item exhibitor acting as one of the multiple exhibiting applications making part of the system of the present invention, wherein frontal and posterior panels have a specially adapted cloth to receive items in exhibition;

Fig. 43 is a perspective view of a diverse item exhibitor with a H" shape structure, and acting as one of the multiple exhibiting applications making part of the system of the present invention;

Fig. 44 is a perspective view of a diverse item exhibitor with a pyramidal structure, which acts as one of the multiple exhibiting applications making part of the system of the present invention;

Fig. 45 is a perspective view of a exhibitor mode comprising a universal module as that illustrated in Fig. 1, wherein the lid or cover has been adapted in way of tray, and acting as one of the multiple exhibiting applications making part of the system of the present invention;

Fig. 46 is a perspective view of another exhibitor mode comprising an universal module as that illustrated in Fig. 1, wherein the lid or cover has been adapted in way of tray, and acting as one of the multiple exhibiting applications making part of the system of the present invention;

Fig. 47 is a perspective view of another mode of exhibitor comprising a posterior tray, a frontal tray and side trays located on a universal module as that illustrated in Fig. 1, wherein the lid or cover has been adapted to receive said trays, and acting as one of the multiple exhibiting applications making part of the system of the present invention;

Fig. 48 is a perspective view of another mode of exhibitor comprising a universal module as that illustrated in Fig. 1, wherein the lid or cover has been adapted to receive in way of coat rack to support diverse type of clothing, and acting as one of the multiple exhibiting applications making part of the system of the present invention;

Fig. 49 is a perspective view of another mode of multiple exhibiting application comprising a universal module as that illustrated in Fig. 1, in which internal space there has been arranged a polystyrene refrigerator, and which acts as one of the multiple exhibiting applications making part of the system of the present invention;

Fig. 50 is a perspective view of the polystyrene refrigerator illustrated in Fig. 49;

Fig. 51 is a perspective view of another mode of multiple exhibiting application comprising a universal module as that illustrated in Fig. 1, wherein the lid or cover has a gate to introduce envelopes or any other object in a box which is in the internal space of the universal module;

Fig. 52 is a perspective view of the multiple exhibiting application illustrated in Fig. 51, wherein it can be appreciated more clearly the internal arrangement of the elements integrating said multiple exhibiting application.

Detailed Description of the Invention

[0037] According to the present invention, here it is provided a dismountable, ultra light stations system to

exhibit items and assist customers, which comprises at least one light, easy to assemble universal module, without mechanical interlocking elements and very solid, which may optionally be attached to a connecting module, or optionally be attached to an ear module, or optionally be attached to multiple exhibiting applications; all above act as basic pieces to create a plurality of forms of exhibit stations, that may grow in horizontal and/or vertical direction according to the needs and preferences of the user.

[0038] The universal module of the present invention is illustrated in Fig. 1 with the reference number 10', which may be associated as one unit of the general structure of the exhibit station of commercial items or for other purposes of stations for public attention. The cited universal module 10' comprises in its structure a plate or cover lid 12, or rigid material, i.e., from Formica, in elliptic way. As illustrated in Fig. 5, cover lid 12 is provided, in the margin edge of its inferior surface, of a nervure 20 parallel to its edge. Nervure has fixedly joined around its exterior wall, extending vertically down, one of the two bands or strips, cooperating each other to form a Velcro union (registered brand from Velcro USA®), being the other strip cooperating to form said union firmly adhered along the internal surface area of the cross section edges 32 (Figs. 2 and 3), of a flexible partition wall 30, (Fig. 2) forming the vertical side wall 10 of the universal module 10'. Flexible partition wall 30 is formed by a series of elongated wood members joined each other longitudinally in side to side relation by the action of a glue able to form a flexible union between the sides which are in contiguous relation of two of said adjacent elongated members.

[0039] Elongated wood members forming said flexible partition wall 30 have a cross section of regular trapezoidal shape with its lower base directed toward the inside of the room to be formed, and with its higher base joined by an adhesive, to a layer of cloth (Fig. 4) of textile material. Elongated wood member 33 (Fig. 4) located in the edges is wider than that of elongated elements disposed in the remainder area of said partition wall, since said member 33 will support the stresses derived from the installation of the door 8 (Fig. 1) of the cabin. Given the trapezoidal form of the cross section of said elongated elements, between each pair of them, it is defined an empty space 28 of angular shape (Fig. 4), space which allows a degree of turn for mutual closing of oblique side walls of elongated adjacent elements 33 (Figs. 2 and 4). The above described flexible laminar material, is designated along the present specification, for purposes of easy reference, with the term "Tensaflex".

[0040] Continuing with the construction of the universal module 10', its vertical side wall 10 is formed by a partition wall 30 (Figs. 1 and 2) of material Tensaflex, superimposing its upper cross section 32, (Fig. 2), on a union strip Velcro 31 arranged firmly around the peripheral exterior surface of the nervure 20 (Figs. 5 and 6) and applying pressure to form the Velcro union between the

before cited strips 31 and 32.

[0041] Additionally, since the structure of the universal module 10' comprises also a bottom board or partition wall 14 (Figs. 7 and 8), it is also similarly joined, by a Velcro union, to the flexible partition wall 30, forming the vertical wall 10, which along its inferior cross sectional strip 32, under its assembled condition, will be faced to join a respective band of Velcro arranged firmly around the exterior vertical surface 32' of a nervure which is projected outside of the board from its base 14.

[0042] Universal module 10' of the system of the present invention, may have its vertical body for deposit without any other additional element adhered to the interior of its structure, or may also include along its height, one or more internal cross sectional shelves or partition walls 16 (Figs. 1, 9 and 10), which are fixedly joined to the internal surface of the vertical wall 10 of the universal module, by a Velcro union which is achieved by the co-operation of a strip section of Velcro union 32 joined around the external edge of the shelf 16 which, under its installed condition, is facing a cross section of Velcro strip 32' arranged cross sectionally at a convenient desired height on the internal wall of the side wall 10 formed by a partition wall 30 of Tensaflex, as illustrated in Fig. 3.

[0043] Side wall 10 of the universal module 10' formed with the partition wall of Tensaflex 30, may form a vertical body for totally closed deposit, or may define a rectangular opening along its height, through which there is access to the interior space of said universal module 10'. In said rectangular opening it is normally installed a door 8 (Fig. 1) by conventional means. Shelves 16 (Figs. 1, 9 and 10) installed cross sectionally at different levels along the height of the universal module 10' have a edge section cut in straight line, of length substantially equal than the size of the width of said door, to which cut edge of said shelves is faced.

[0044] Lid or cover 12 making part of the universal module illustrated in Fig. 1, may be elliptic as in the case of Figs. 7 and 8, or rectangular as in the case of Figs. 11, 12 and 35, or may comprise all the non limiting possibilities of lid or cover that were described here previously.

[0045] As indicated before, the system of the present invention comprises not only the use of at least one universal module, described before, but also it comprises the installation of one or more specially configured connecting modules, between universal modules described above. Said connecting modules comprise several types allowing to join two, three or more universal modules, and which are designated in the present invention as two-way, three-way or more connecting modules, as explained before.

[0046] In the case of two-way connecting modules, they may be curved as that indicated in the reference numeral 17 in Fig. 13, or straight ones as that observed in Fig. 14. Said curved connecting modules are formed by a cover lid board 18 (Figs. 13, 14, 15 and 16), of elongated form which extends in longitudinal way along a

curvature arch formed to the curvature in which universal modules 10' are installed, in an exhibit station of circular installation, as that illustrated according to the Fig. 21.

[0047] Against the inferior surface of the cover lid board 18 (Figs. 13, 15 and 16) a board 17' is arranged, being the arranged in such way that between elongated edges of the cover lid board 18 and of the board 17', joined on their inferior surface, it is defined a rabbet on the vertical surface from which one of the Velcro strips is joined, which will cooperate with the other one of the Velcro strips joined along the upper cross sectional edge of the partition wall of vertical side wall 15, constituted by the material designated, and already described as Tensaflex. In similar way, against the upper surface of the bottom board 18' (Figs. 17 and 18) there is a board 17'', being said board 17'' less wide than the bottom board 18', so that along their higher sides, there is a rabbet 19' on the vertical surface from which one of the Velcro strips is joined, and cooperates with a Velcro strip disposed along the inferior cross sectional edge of the board of material Tensaflex forming the vertical side wall 15 of said connecting module 17.

[0048] Curvature arch formed in the opposite ends of the cover boards 18 and of bottom boards 18' (Fig. 13), is geometrically configured to cover tightly the surfaces of each end of vertical walls 15 of universal modules 10', in a simple exhibit station in circumferential arrangement, as that illustrated in Fig. 21, so that vertical side wall 15 opposite each other, of the connecting modules 17, will be located in the same circumferential arrangement than said universal modules 10'.

[0049] Two-way connecting modules 17 illustrated in Figs. 13 and 14, allow to create simple basic exhibit stations as those illustrated in Figs. 19 or 20, or more complex exhibit stations based on said simple exhibit stations illustrated in Figs. 19 or 20.

[0050] Two-way connecting modules 17 (Figs. 13 and 14) are different from three-way connecting modules 40 (Fig. 22) basically in the number of side walls. Indeed, while in two-way connecting module two side walls of material named as Tensaflex are used, in the three-way connecting module, three side walls are used.

[0051] A three-way connecting module 40 as that illustrated in Fig. 22, is formed by a cover lid board 42 and a base boards 43, both of irregular shape in way of triangle, that instead of vertices or tips, present some curvature arches which are formed and follow the same curvature of the side wall of universal modules 10' of the system of the present invention.

[0052] Along the opposite exterior longitudinal edges of the cover boards 42 of the three-way connecting module 40, there is a rabbet, on the vertical surface from which one of the Velcro strips is joined, that will cooperate with the other of the Velcro strips joined along the upper cross sectional edge of the partition wall of vertical side wall 41, constituted by the material designated, and already described as Tensaflex. In similar way, along the three higher sides of the board 43 there is a rabbet on the

vertical surface from which one of the Velcro strips is joined, that cooperate with a Velcro strip arranged along the inferior cross sectional edge of the board of material Tensaflex, forming the vertical side wall 41 of said three-way connecting module 40.

[0053] Three-way connecting modules 40 illustrated in Fig. 22, allow to create basic exhibit stations with "Y" shape as that illustrated in Fig. 23, or more complex exhibit stations based on the basic exhibit station with "Y" shape.

[0054] Alternatively, universal modules, as well as connecting modules, and in general any element making part of the system of the present invention, may use for assembling signals or guide points, as those indicated with the reference number 44 in Fig. 22, on the cover boards, base boards and side wall indicating the user the most appropriate way to join the different pieces of the units and modules integrating the system of the present invention.

[0055] As indicated before, to form the exhibit stations of the stations system of the present invention, there are used as basic elements, above mentioned universal modules and connecting modules. To achieve this objective, side walls of two, three or more ways connecting modules have a vertical band of Velcro in their ends, which allow to join in detachable way, connecting modules to the textile cloth that is in the exterior surface of the side walls of the universal modules. By alternating connecting modules between the universal modules, an user may create a plurality of designs and shapes of exhibit stations which goes from a simple set composed by two universal modules and a two-way connecting modules joining said universal modules, to much more complex exhibit stations that use several universal modules joined by straight or curved, two-way or three-way or more ways connecting modules, forming circular, elliptical, rectangular and Y stations, and any other type of exhibit station that the user desires, including stations with ear modules as those described below.

[0056] The exhibit stations system of the present invention also envisages, in one of their modes, the provision of means to extend, either in straight line or arched line, universal modules 10' in the formed exhibit stations, as observed in example in Figs. 34 and 35. Thus, in example, to provide an exhibit station with their units 10' in straight line, the present invention envisages to install ear modules 11', Figs. 24 and 34, consisting on units formed by a cover lid board 9 (Figs. 25, 26, 27 and 34), which is essentially a general elliptic contour board having in one of their ends a rabbet area according to a curvature arch 7, which is developed according to a curvature arch that is adapted to be formed to the curvature arch of the end zone of the side wall of the basic unit 10'. Ear module 11', may be provided alternatively of a cover or cover board 9' of rectangular shape, as illustrated in Figs. 28, 29, 30 and 35. Also, ear module 11' is provided of a rigid bottom board 14, (Fig. 24, 31, 32 and 33), having in its side region of edge, supported on a nervure 6' pro-

jected vertically toward the inside of it. Vertical wall 11 of the ear module 11' is formed by a laminar section of above described material Tensaflex (Fig. 2). Height of ear module 11' diminishes preferentially progressively as each module is installed far from said universal module 10' which is in the exhibit station formed with the system of the present invention. Ear modules 11' are generally joined to a universal module 10' as illustrated in Figs. 34 and 35, but also they may be joined each other by two-way, three-way or more way connecting modules as those described before.

[0057] Vertical wall 11 of the ear module 11' is joined, both to the cover board 9 and the bottom board 14', by Velcro unions made by cooperating strips 32 installed in faced way as well in regions of cross sectional, upper and inferior edge, of the partition wall of material Tensaflex 30 forming the vertical wall 11, as in appropriate places of both cover 9 and bottom 14' boards.

[0058] Ear modules 11' may be used in any type of exhibit station formed with the system of the present invention, including those using two-way, straight or curved connecting modules or three-way or more way modules.

[0059] As indicated before, the dismountable, ultra light stations systems to exhibit items and assist customers of the present invention, also comprises multiple exhibiting applications, which are selected from the group consisting of showcase modules; light modules to place advertisement or similar objects that may be lighted; parasols; advertisement pennants; CD exhibitors; books exhibitors; diverse item exhibitors; perforated and non perforated trays holding each other or that are slopped by a supporting element joined to the tray by a hinge; being these multiple exhibiting applications placed only on the flat cover of the universal module, of the connector module or the ear module, or being these multiple exhibiting applications supported on the modified cover of the universal module, from the connecting module or the ear module, or on the cover of another multiple exhibiting application, that may exhibit grooves, Velcro strips or similar adaptations.

[0060] One of the multiple exhibiting applications making part of the system of the present invention, consists on a showcase module indicated with the reference number 45 in Fig. 36. Said showcase module 45 has a vertical body for deposit of general elliptic shape cross section, which is provided of a cover lid 46 and, vertically separated of it, from a base board 47, being provided the upper surface of said base board, toward the center and around its external edges, of a groove receiving two side beams 48 as posts, which have grooves adapted to receive one, two or more shelf boards 49 of transparent material, each with a separator (non illustrated in Fig. 36), located under each shelf, to provide stability to the structure of the shelf, and an upper beam (non illustrated in Fig. 36), joining the two beams to give stability to the structure and to support the cover lid 46 of the showcase module 45 to which it is joined by a Velcro type union, having said showcase module a frontal panel 50 of trans-

parent material, and two posterior panels 51 of transparent material matching in the groove of the base board, being said posterior panels separated each other to define a door opening.

[0061] Showcase module 45 illustrated in Fig. 36, may additionally include a door installed by conventional means, in the door openings giving access to the internal storage space of the showcase module.

[0062] Another of the multiple exhibiting applications making part of the system of the present invention consists on a light module as those illustrated in Figs. 37, 38 and 39. Light module 52 illustrated in Fig. 37 has a vertical body of deposit of general elliptic shape cross section, which is provided of a cover lid 53 and, vertically separated from it, of a base board 54, having the upper surface of said base board 54, toward the center and around its external edges, a groove receiving two side beams 55 in way of posts, joined in the upper part by a beam 56 giving stability to the structure and supporting the cover lid 53 of the light module 52 to which it is attached by a Velcro type union or any other type of union, being said base board also adapted to install one or more bulbs 57 or similar objects, and having said light module a frontal panel and a posterior panel, both of transparent material matching in the groove of the base board and allowing to place any type of advertisement or similar objects that may be lighted.

[0063] Another mode of before described light module is appreciated in Figs. 38 and 38, wherein the base of said module 58 is composed by a universal module 10' as that described before, having its lid or upper cover of square type, and being the side wall of said module totally closed. This type of light module 58 has a structure to be matched in a groove, or that may be adhered to the rectangular lid or cover by a Velcro union strip. Said light module comprises a frontal panel 59 and a posterior panel 60, both or only one of them of transparent material, that are either supported by pressure executed each other, or they are joined in their upper part by a Velcro union strip. Also, two side panels 61 make part of this kind of light module, with shape of triangle supported by the frontal 59 and posterior 60 panels by the pressure executed on them, or adhered to said posterior 60 and frontal 59 panels by a Velcro type union. In the space formed by posterior 60 and frontal 59 panels, there are normally installed one or more bulbs 52 or similar objects, which allow to light an advertisement or similar object that may be lighted, and which is placed on one or two posterior and frontal panels.

[0064] An item exhibitor constitutes another of the multiple applications making part of the system of the present invention. An item exhibitor 63 such as CD's, illustrated in fig. 40 has a structure that may be matched in a groove, or may be adhered to the lid or cover 12 of rectangular type of a described before universal module 10', by a union Velcro strip. This exhibitor 63 comprises a frontal panel 64 and a posterior panel 65 that are either supported by pressure executed each other, or they are joined

in their upper part by a Velcro union strip. Said exhibitor 63 also includes two side panels 66 with shape of triangle supported by the frontal and posterior panels by the pressure executed on them, or be adhered by said posterior and frontal panels by a Velcro type union. Posterior and frontal panels of the exhibitor 63, illustrated in Fig. 40 have a series of shelves 67 allowing to support CD's or similar objects. Nevertheless, distance between said shelves 67 may be higher as in the case of exhibitor 63 illustrated in Fig., 41, to receive books or similar objects; or the exhibitor 63 may just not have shelves, but being constituted by a special cloth to which products to be exhibited are adhered, as in the case illustrated in Fig. 42.

[0065] Another multiple exhibiting application making part of the system of the present invention consists on a diverse items exhibitor 68 illustrated in Fig. 43 which has a structure that may be matched in a groove, or that may be adhered to the lid or cover 12 of rectangular type of a before described universal module 10', by a Velcro union strip. Said exhibitor 68 comprises a central panel 69 matching in the central vertical grooves of two side panels 70, forming a "H" shape structure from an upper view, and a plurality of shelves, matching in horizontal way corresponding grooves specially arranged in the interior part of side panels 70 to form a series of shelves to receive any type of items which adapt to the size of said shelves, having also, side panels a plurality of shelves 72 in their external part.

[0066] Another mode of diverse items exhibitors is illustrated in Fig. 44. This diverse items exhibitor 73 has a pyramidal structure that may be matched in a grooves, or that may be adhered to the lid or cover 12 of rectangular type of a before described universal module 10', by a Velcro union strip. This exhibitor 73 comprises a frontal panel 74 and a posterior panel 75 of trapezoidal shape that are either supported by pressure executed each other, or they are joined in their upper part by a Velcro union strip. Said exhibitor 73 also includes two side panels 76 of shape of triangle supported by the frontal and posterior panels by the pressure executed on them, or adhered to said posterior and frontal panels by a Velcro type union. Posterior, frontal and side panels of exhibitor 73 illustrated in Fig. 44 have a series of shelves 77, totally surrounding the structure formed, and which allow to support any type of items adapted to the size of shelves formed by said shelves 77.

[0067] Another multiple exhibiting application making part of the present invention consists on exhibitors composed by perforated or non perforated trays as those illustrated in Figs. 45, 46 and 47. Figs. 45 and 46, for example, illustrate a before described universal module 10', which lid or cover 12 has been adapted to the shape of a tray, being said tray of a size reaching the edge of the lid or cover 12 as in the case of the exhibitor illustrated in Fig. 45, or being said tray of a size lower than the size of the lid or cover 12.

[0068] This type of exhibitors composed by trays may also be a structure as that described in Fig. 47, which

must be matched to a groove or may be adhered to the lid or cover 12 of rectangular type of the above described universal module 10', by a Velcro type union. This type of exhibitor 81 comprises a frontal tray 78, a posterior tray 79 and side trays 80 that are either supported by pressure executed each other, or they are joined by Velcro union strips, as illustrated in Fig. 47.

[0069] This type of exhibitors composed by trays may also be a structure (Figure 46) composed by a sole tray which is slopped by a supporting element joined to said tray by a hinge that may be supported in a groove or that may be adhered to a specially arranged Velcro strip on the rectangular lid or cover of a universal module.

[0070] Another multiple exhibiting application making part of the system of the present invention consists on a clothing exhibitor 82 illustrated in Fig. 48 and which has a structure in way of coat rack that may be matched in a groove or that may be adhered to the lid or cover 12 of rectangular type of an above described universal module 10', by a Velcro union strip. Said clothing exhibitor 82 comprises a central panel 83, two triangle shape panels 84 and two beams 85, that when they are joined form a structure in way of coat rack allowing to receive clothing on beams 85.

[0071] Other multiple exhibiting applications making part of the system of the present invention comprise the modification of the storage space of the above described universal module 10'. Thus, in a preferred mode illustrated in figs. 49 and 50, the multiple exhibiting application comprises a universal module 10' in which internal storage space it has been installed a polystyrene refrigerator 86 illustrated on Fig. 50, of cross section in general elliptic way, and having an access door 87. In other preferred mode illustrated in Figs. 51 and 52, the multiple exhibiting application comprises a universal module 10' in which lid or cover 12 has a gate 89 allowing to introduce inside the module tickets, envelopes or any other object inside a box 88 which is located on a flange of the opening of the gate 89 of the lid or cover 12 of the universal module 10'.

[0072] Several modifications may be done regarding the structural arrangement described in specific way previously, without departing from the scope of the present invention, which is defined by the following claims.

Claims

1. A module for a dismountable exhibition or customer assistance system, the module **characterized by comprising**

a base board (14), a cover lid (12), and a laminar partition wall (30) forming a vertical-extending cylindrical body of at least partially elliptical cross-section extending between the base board and the cover lid;
wherein the laminar partition wall (30) comprises

- a series of elongated wood elements (33) of regular trapezoidal cross section, arranged in side to side relation and extending vertically in use, the wood elements (33) being flexibly joined by attaching the wider of the parallel faces of the wood elements (33) to a layer of textile material; wherein the undersurface of said cover lid (12) and the upper surface of said base board (14) have a raised central area (20, 32') which has an at least part-elliptical outwardly-facing surface (32') perpendicular to the plane of the cover lid or base board, respectively; and wherein said outwardly-facing surface is provided with one part of a hook and loop type fastener (31), the other part of the hook and loop type fastener (32) being provided as bands (32) arranged along the upper and the lower edges, respectively, of the laminar partition wall (30).
2. A module according to claim 1, wherein the undersurface of said cover lid and the upper surface of said base board have a raised central area which has an elliptical outwardly-facing surface (32') perpendicular to the plane of the cover lid or base board, respectively.
 3. A module according to claim 1, further including one or more internal shelves (16), which are fixedly joined to the internal surface of the partition wall by means of a hook and loop type fastener strip, one part (32) of which is attached around the external edge of the shelf, and the other part (32') of which is fixed around the internal curved surface of the partition wall (30) of the module.
 4. A module according to claim 1, further including a door (8) installed by conventional means in a door opening formed between side edges of the partition wall (30) and giving access to the internal space of the module.
 5. A module according to any preceding claim, wherein the cover lid is elliptical or rectangular in shape.
 6. A module according to any preceding claim, wherein the cover lid is essentially flat, or is modified to receive multiple exhibiting applications.
 7. A module according to any preceding claim, wherein the cover lid is adapted to act as reception tray for objects, or has on its upper surface a structure such as a coat rack to hang clothing, or includes an opening to receive envelopes or similar objects, or has an upper access door turning by the use of a hinge, or includes one or more socket openings destined to receive a parasol or a mast to place an advertisement, an advertisement pennant or similar objects, or includes one or more openings intended to receive cabling for electronic equipment.
 8. A module according to claim 1 comprising a base board (14), a cover lid (12), and a laminar partition wall (30) which is a connection module adapted to allow the union of two, three or more elliptical modules according to any preceding claim, and whose laminar partition wall (30) is of lesser height than the modules to be connected.
 9. A connection module according to claim 8, wherein the connection module is a straight or curved connecting module (17) adapted to allow union of two elliptical modules according to any of claims 1 to 7, said connection module having a cover lid (18) in elongated form that may be straight or arcuate and a base board (18') corresponding in shape to the cover lid (18), the cover lid (18) and base board (18') each being formed with two concave recesses following the same curvature as the partition wall of an elliptical module.
 10. A dismountable exhibition or customer assistance station system comprising one or more modules according to any of claims 1 to 7 and one or more connection modules (17) according to claim 9.
 11. A dismountable exhibition or customer assistance station system comprising a plurality of modules according to any of claims 1 to 7 arranged in a circle and joined by one or more curved connection modules (17) according to claim 9.
 12. A dismountable exhibition or customer assistance station system comprising a plurality of modules according to any of claims 1 to 7 arranged in a straight line and joined by one or more straight connection modules (17) according to claim 9.
 13. A dismountable exhibition or customer assistance station system comprising a plurality of modules according to any of claims 1 to 7 arranged in a rectangular or oval formation and joined by one or more straight connection modules (17) and one or more curved connection modules (17) according to claim 9.
 14. A connection module according to claim 8, wherein the connection module is adapted to allow the union of three modules, and has a cover lid (42) in substantially triangular form with concave recesses at its vertices following the same curvature as the partition wall of an elliptical module, and a base board (43) corresponding in shape to the cover lid (42).
 15. A dismountable exhibition or customer assistance station system according to claim 10, comprising three or more modules according to any of claims 1

to 7 arranged in one or more "Y" formations, the modules of each "Y" formation being joined by a connection module according to claim 14.

16. A dismountable exhibition or customer assistance station system according to any of claims 10, 11 12 13 or 15, wherein the partition walls of the connection modules have a vertical hook and loop type fastener strip at their side edges, which allows the detachable union of connector modules to the textile cloth which is in the exterior surface of the partition walls of elliptical modules.

17. A dismountable exhibition or customer assistance station system comprising an elliptical module according to any of claims 1 to 7 and an ear module (11'), the ear module comprising a base board (14), a cover lid (9, 9'), and a laminar partition wall (11) forming a vertically-extending cylindrical body of at least partially elliptical cross-section extending between the base board and the cover lid;

the height of the partition wall of the ear module being less than the height of the partition wall of the elliptical module; and

the cover lid and base board of the ear module being shaped at one end (7, 6') with a recess to correspond to the external shape of the partition wall of the elliptical module.

18. A dismountable exhibition or customer assistance station system according to claim 17, wherein the base board of said ear module is formed by flat, rigid narrow elements (22) which extend attached fixedly along the inferior edge of said partition wall, and a rigid bottom partition wall (13) with its side edge area, firmly supported on the upper surface of said flat, rigid, narrow elements.

19. A dismountable exhibition or customer assistance station system according to claim 17 or claim 18, wherein the upper edge of the vertical partition wall of the ear module is attached to the cover lid along the internal edge of a margin area that extends along between the upper edge of said vertical partition wall and the exterior side edge of said cover lid.

20. A dismountable exhibition or customer assistance station system according to any of claims 17 to 19 wherein the cover lid (9') of the ear module has a generally square shape, one of the sides being formed with a recess configured to be adapted to the end curvature of the partition wall of an elliptical module.

21. A dismountable exhibition or customer assistance station system according to any of claims 17 to 20 comprising an elliptical module and a plurality of ear

modules (11') arranged on a row extending from the elliptical module, wherein the heights of the ear modules (11') diminish as their position in said row is more remote from the elliptical module.

22. A dismountable exhibition or customer assistance station system according to any of claims 17 to 21 comprising an elliptical module, a number of ear modules (11') arranged to extend in a first direction from the elliptical module, and a number of ear modules (11') arranged to extend in a second direction, opposite to said first direction, from the elliptical module, and wherein the heights of the ear modules (11') diminish as their positions are more remote from the elliptical module

23. A dismountable exhibition or customer assistance station system according to any of claims 17 to 22, wherein the side edges of the partition walls (11) of the ear modules have a vertical hook and loop type fastener strip at their side edges, which allows the detachable union of ear modules to the textile cloth which is in the exterior surface of the partition walls of elliptical modules.

24. A module for a dismountable exhibition or customer assistance station system according to any of claims 1 to 7, wherein the cover lid, and base board or partition wall includes one or more indicator marks to assist alignment of the parts of the module during assembly.

25. A module for a dismountable exhibition or customer assistance station system according to any of claims 1 to 7, further comprising an upper structure mountable to the cover lid, the upper structure comprising a frontal panel, a posterior panel, one or both of which are of transparent material, and two side panels, the upper structure further including one or more light sources in the internal space formed by the frontal, posterior and side panels which permit the illumination of an advertisement or similar object placed on one of the posterior and frontal panels.

26. A module according to claim 25, wherein the front panel and the posterior panel are square or trapezoidal in form, and the side panels are triangular and are supported by the frontal and posterior panels.

27. A module according to claim 25 or claim 26, wherein the posterior and frontal panels have a textile cloth specially adapted to receive exhibition items.

28. A module according to any of claims 25 to 27, wherein the posterior and frontal panels have shelves located at determined distances to be able to support CD's, books or similar objects.

29. A module according to any of claims 25 to 28, wherein the posterior, frontal and side panels have shelves totally surrounding the upper structure.
30. A module according to any of claims 25 to 29, having an upper structure comprising one or more perforated or non perforated trays.
31. A module according to claim 25, having an upper structure comprising a central panel fitted in central vertical grooves of two side panels forming an "H" shape structure in plan view, and a plurality of shelves fitted in grooves arranged in the inner faces of the side panels to form a series of racks, the side panels also having a plurality of shelves on their outer faces.

Patentansprüche

1. Modul für ein zerlegbares Ausstellungs- oder Kundenbediensystem, **gekennzeichnet durch**

eine Grundplatte (14), einen Deckel (12) und eine flächige Trennwand (30), die einen vertikal verlaufenden zylindrischen Körper mit wenigstens teilweise elliptischem Querschnitt bildet, der zwischen der Grundplatte und dem Deckel verläuft,

wobei die flächige Trennwand (30) eine Reihe länglicher Holzelemente (33) mit regelmäßigem trapezförmigem Querschnitt aufweist, die Seite an Seite angeordnet sind und im Gebrauch vertikal verlaufen, wobei die Holzelemente (33) flexibel miteinander verbunden sind, indem die breitere der parallelen Seiten der Holzelemente (33) an einer Textilmaterialschicht befestigt sind,

wobei die Unterseite des Deckels (12) und die Oberseite der Grundplatte (14) einen erhabenen zentralen Bereich (20, 32') aufweisen, der eine wenigstens teilweise elliptische, nach außen weisende Fläche (32'') aufweist, die senkrecht zu der Ebene des Deckels bzw. der Grundplatte steht, und

wobei die nach außen weisende Fläche mit einem Teil eines Klettverschlusses (31) versehen ist, während der andere Teil des Klettverschlusses (32) in Form von Bändern jeweils an der oberen und der unteren Kante der flächigen Trennwand (30) vorgesehen ist.

2. Modul nach Anspruch 1, wobei die Unterseite des Deckels und die Oberseite der Grundplatte einen erhabenen zentralen Bereich aufweisen, der eine elliptische, nach außen weisende Fläche (32'') aufweist, die senkrecht zu der Ebene des Deckels bzw. der Grundplatte steht.

3. Modul nach Anspruch 1, ferner mit einem oder mehreren internen Fachböden (16), die mittels eines Klettverschlußstreifens fest mit der Innenseite der Trennwand verbunden sind, wobei ein Teil (32) des Klettverschlusses um die Außenkante des Fachbodens angebracht ist, und der andere Teil (32') längs der gekrümmten Innenseite der Trennwand (30) des Moduls befestigt ist.

4. Modul nach Anspruch 1, ferner mit einer Tür (8), die auf konventionelle Weise in einer zwischen Seitenkanten der Trennwand (30) gebildeten Türöffnung eingerichtet ist und den Zugriff auf den Innenraum des Moduls freigibt.

5. Modul nach einem der vorstehenden Ansprüche, wobei der Deckel von elliptischer oder rechteckiger Form ist.

6. Modul nach einem der vorstehenden Ansprüche, wobei der Deckel im wesentlichen flach oder so modifiziert ist, daß er mehrere Ausstellungsanwendungen aufnehmen kann.

7. Modul nach einem der vorstehenden Ansprüche, wobei der Deckel dazu ausgelegt ist, als ein Ablage für Objekte zu dienen, oder der Deckel auf seiner Oberseite eine Struktur wie einen Garderobenständer zum Aufhängen von Kleidung, oder eine Öffnung zum Aufnehmen von Briefumschlägen oder ähnlichen Objekten, oder eine obere über ein Scharnier drehbare Zugangstür, oder eine oder mehrere Stecköffnungen aufweist, die zur Aufnahme eines Schirms oder eines Mastes zum Anbringen von Werbung, eines Werbefähnchens oder ähnlicher Objekte geeignet ist, oder eine oder mehrere Öffnungen zur Aufnahme einer Verkabelung für elektronische Einrichtungen aufweist.

8. Modul nach Anspruch 1 mit einer Grundplatte (14), einem Deckel (12) und einer flächigen Trennwand (30), die ein Verbindungsmodul darstellt, das die Vereinigung von zwei, drei oder mehreren elliptischen Modulen gemäß einem der vorstehenden Ansprüche ermöglicht, und deren flächige Trennwand (30) eine geringere Höhe aufweist als die zu verbindenden Module.

9. Verbindungsmodul nach Anspruch 8, wobei das Verbindungsmodul in einem geraden oder gekrümmten Verbindungsmodul (17) besteht, das die Vereinigung von zwei elliptischen Modulen gemäß einem der Ansprüche 1 bis 7 ermöglicht, wobei das Verbindungsmodul einen Deckel (18) länglicher Form, der gerade oder gebogen sein kann, und eine Grundplatte (18'), die in ihrer Form dem Deckel (18) entspricht, aufweist, wobei der Deckel (18) und die Grundplatte (18') jeweils mit zwei konkaven Vertie-

fungen gebildet sind, die der gleichen Krümmung wie die Trennplatte des elliptischen Moduls folgen.

10. Zerlegbares Ausstellungs- oder Kundenbedienstationssystem mit einem oder mehreren Modulen nach einem der Ansprüche 1 bis 7 und einem oder mehreren Verbindungsmodulen (17) gemäß Anspruch 9. 5
11. Zerlegbares Ausstellungs- oder Kundenbedienstationssystem mit mehreren Modulen nach einem der Ansprüche 1 bis 7, die in einem Kreis angeordnet und durch mindestens ein gekrümmtes Verbindungsmodul (17) gemäß Anspruch 9 verbunden sind. 10
12. Zerlegbares Ausstellungs- oder Kundenbedienstationssystem mit mehreren Modulen nach einem der Ansprüche 1 bis 7, die in einer geraden Linie angeordnet und durch mindestens ein gerades Verbindungsmodul (17) gemäß Anspruch 9 verbunden sind. 15
13. Zerlegbares Ausstellungs- oder Kundenbedienstationssystem mit mehreren Modulen nach einem der Ansprüche 1 bis 7, die in einer rechteckigen oder ovalen Formation angeordnet und durch mindestens ein gerades Verbindungsmodul (17) und mindestens ein gekrümmtes Verbindungsmodul (17) gemäß Anspruch 9 verbunden sind. 20
14. Verbindungsmodul nach Anspruch 8, wobei das Verbindungsmodul dazu ausgelegt ist, die Vereinigung von drei Modulen zu ermöglichen und einen Deckel (42) mit im wesentlichen dreieckiger Form mit konkaven Vertiefungen an seinen Spitzen, der die gleiche Krümmung wie die Trennwand des elliptischen Moduls aufweist, und eine Grundplatte (43), die in ihrer Form dem Deckel (42) entspricht, aufweist. 25
15. Zerlegbares Ausstellungs- oder Kundenbedienstationssystem gemäß Anspruch 10, mit drei oder mehreren Modulen gemäß einem der Ansprüche 1 bis 7, die in einer oder mehreren "Y"-Formation angeordnet sind, wobei die Module jeder "Y"-Formation durch ein Verbindungsmodul nach Anspruch 14 verbunden sind. 30
16. Zerlegbares Ausstellungs- oder Kundenbedienstationssystem nach einem der Ansprüche 10, 11, 12, 13 oder 15, wobei die Trennwände der Verbindungsmodule einen vertikalen Klettverschlußstreifen an ihren Seitenkanten aufweisen, der die lösbare Vereinigung der Verbindungsmodule mit dem Textilstoff ermöglicht, der an der Außenseite der Trennwände der elliptischen Module angebracht ist. 35
17. Zerlegbares Ausstellungs- oder Kundenbedienstationssystem mit einem elliptischen Modul gemäß ei-

nem der Ansprüche 1 bis 7 und einem Ohrmodul (11'), wobei das Ohrmodul eine Grundplatte (14), einen Deckel (9, 9') und eine flächige Trennwand (11) aufweist, die einen vertikal verlaufenden zylindrischen Körper wenigstens teilweise elliptischen Querschnitts bildet, der zwischen der Grundplatte und dem Deckel verläuft, wobei

die Höhe der Trennwand des Ohrmoduls geringer ist als die Höhe der Trennwand des elliptischen Moduls, und der Deckel und die Grundplatte des Ohrmoduls an einem Ende (7, 6') mit einer Vertiefung ausgebildet sind, die der äußeren Form der Trennplatte des elliptischen Moduls entspricht.

18. Zerlegbares Ausstellungs- oder Kundenbedienstationssystem gemäß Anspruch 17, wobei die Grundplatte des Ohrmoduls durch flache, starre, schmale Elemente (22) gebildet ist, die fest miteinander verbunden längs der unteren Kante der Trennwand verlaufen, sowie durch eine starre Bodentrennwand (13), deren Seitenkantenfläche fest auf der Oberseite der flachen, starren, schmalen Elemente abgestützt ist. 40
19. Zerlegbares Ausstellungs- oder Kundenbedienstationssystem gemäß Anspruch 17 oder 18, wobei die Oberkante der vertikalen Trennwand des Ohrmoduls längs der Innenkante eines Randbereichs an dem Deckel befestigt ist, wobei der Randbereich zwischen der Oberkante der vertikalen Trennwand und der äußeren Seitenkante des Deckels verläuft. 45
20. Zerlegbares Ausstellungs- oder Kundenbedienstationssystem gemäß einem der Ansprüche 17 bis 19, wobei der Deckel (9') des Ohrmoduls generell quadratische Form aufweist, wobei eine der Seiten mit einer Vertiefung ausgebildet ist, die zur Anpassung an die Endkrümmung der Trennwand eines elliptischen Moduls geeignet ist. 50
21. Zerlegbares Ausstellungs- oder Kundenbedienstationssystem gemäß einem der Ansprüche 17 bis 20 mit einem elliptischen Modul und mehreren Ohrmodulen (11'), die in einer von dem elliptischen Modul ausgehenden Reihe angeordnet sind, wobei die Höhen der Ohrmodule (11') mit deren positioneller Entfernung von dem elliptischen Modul abnehmen. 55
22. Zerlegbares Ausstellungs- oder Kundenbedienstationssystem nach einem der Ansprüche 17 bis 21 mit einem elliptischen Modul, mehreren Ohrmodulen (11'), die in einer ersten Richtung von dem elliptischen Modul verlaufend angeordnet sind, und mehreren Ohrmodulen (11'), die in einer zweiten, senkrecht zu der ersten Richtung stehenden Richtung von dem elliptischen Modul verlaufend angeordnet

sind, und wobei die Höhen der Ohrmodule (11') sich mit deren positioneller Entfernung von dem elliptischen Modul verringern.

23. Zerlegbares Ausstellungs- oder Kundenbedienstationssystem nach einem der Ansprüche 17 bis 22, wobei die Seitenkanten der Trennwände (11) der Ohrmodule einen vertikalen Klettverschlußstreifen an ihren Seitenkanten aufweisen, der die lösbare Vereinigung der Ohrmodule mit dem Textilstoff ermöglicht, der an der Außenseite der Trennwände der elliptischen Module vorgesehen ist.
24. Modul für ein zerlegbares Ausstellungs- oder Kundenbedienstationssystem nach einem der Ansprüche 1 bis 7, wobei der Deckel und die Grundplatte oder die Trennwand eine oder mehrere Kennzeichnungsmarkierungen aufweisen, die die Ausrichtung der Teile des Moduls während des Aufbaus erleichtern.
25. Modul für ein zerlegbares Ausstellungs- oder Kundenbedienstationssystem nach einem der Ansprüche 1 bis 7, ferner mit einer an dem Deckel befestigten Oberstruktur, die eine Frontplatte und eine hintere Platte, von denen mindestens eine aus transparentem Material besteht, und zwei Seitenplatten aufweist, wobei die Oberstruktur ferner eine oder mehrere Lichtquellen in dem durch die Frontplatte, die hintere Platte und die Seitenplatten gebildeten Innenraum aufweist, die die Beleuchtung einer Werbung oder eines ähnlichen Objekts ermöglichen, das auf der hinteren Platte oder der Frontplatte angeordnet ist.
26. Modul nach Anspruch 25, wobei die Frontplatte und die hintere Platte quadratisch oder trapezförmig sind, und die Seitenplatten dreiecksförmig sind und durch die Frontplatte und die hintere Platte gestützt werden.
27. Modul nach Anspruch 25 oder 26, wobei die hintere Platte und die Frontplatte einen Textilstoff aufweisen, der speziell zur Aufnahme von Ausstellungsgegenständen geeignet ist.
28. Modul nach einem der Ansprüche 25 bis 27, wobei die hintere Platte und die Frontplatte Fachböden aufweisen, die in vorbestimmten Abständen angeordnet sind, um CDs, Bücher oder ähnliche Objekte zu halten.
29. Modul nach einem der Ansprüche 25 bis 28, wobei die hintere Platte, die Frontplatte und die Seitenplatten Fachböden aufweisen, die die Oberstruktur insgesamt umlaufen.
30. Modul nach einem der Ansprüche 25 bis 29 mit einer

Oberstruktur, die mindestens eine perforierte oder nicht perforierte Ablage aufweist.

31. Modul nach Anspruch 25 mit einer Oberstruktur, die eine mittlere Platte aufweist, die in zentrale vertikale Nuten von zwei Seitenplatte eingepaßt ist, um in der Draufsicht eine "H"-förmige Struktur zu bilden, sowie mehreren Fachböden, die in auf den Innenseiten der Seitenwände angeordnete Nuten eingepaßt sind, um eine Reihe von Abstellplätzen zu bilden, wobei die Seitenplatten auch mehrere Fachböden auf ihren Außenseiten aufweisen.

Revendications

1. Un module pour une exposition démontable ou un système d'accueil des clients, le module étant caractérisé en ce qu'il comprend:

un panneau de base (14), un panneau supérieur de fermeture (12) et une cloison laminaire (30) formant un corps cylindrique s'étendant verticalement d'au moins un section transversale elliptique allant du panneau de base au panneau supérieur de fermeture;

où la cloison laminaire (30) comprend une série d'éléments en bois (33) de section transversale trapézoïdale régulière, placés sur les bords et s'étendant verticalement durant l'usage, les éléments en bois (33) sont unis de manière amovible, reliant la partie la plus large des faces parallèles des éléments en bois (33) à une couche en textile;

où la sous-surface de ce panneau supérieur de fermeture (12) et la surface supérieure du panneau de base (14) possèdent une aire centrale surélevée (20, 32') qui a au moins une surface en partie elliptique qui fait face extérieurement (32') et de manière perpendiculaire au plan du panneau supérieur de fermeture ou panneau de base, respectivement, et

où cette surface qui fait face extérieurement est munie d'une partie d'une attache du type bavure (31), l'autre partie de l'attache de type bavure (32) étant munie de bandes (32) réparties tout au long des bords supérieur et inférieur, respectivement, de la cloison laminaire (30).

2. Un module selon la revendication 1, dans lequel la sous-surface de ce panneau supérieur de fermeture et la surface supérieure du panneau de base présentent une aire centrale élevée dotée d'une surface elliptique qui fait face extérieurement (32") et de manière perpendiculaire au plan du panneau supérieur de fermeture ou panneau de base, respectivement.

3. Un module selon la revendication 1, qui comprend en outre une ou plusieurs tablettes internes (16) qui sont fixées de manière inamovible à la surface interne de la cloison au moyen d'une bande d'attache type bavure, dont une partie (32) est fixée au bord externe de la tablette, et l'autre partie (32') est fixée autour de la surface courbe interne de la cloison (30) du module. 5
4. Un module selon la revendication 1, qui comprend en outre une porte (8) installée par des moyens conventionnels sur un encadrement de porte formé entre les bords latéraux de la cloison (30) et donnant accès à l'espace interne du module. 10
5. Un module selon l'une quelconque des revendications ci-dessus, où le panneau supérieur de fermeture a une forme elliptique ou rectangulaire. 15
6. Un module selon l'une quelconque des revendications ci-dessus, où le panneau supérieur de fermeture est essentiellement plat, ou est modifié pour recevoir de multiples applications d'exposition. 20
7. Un module selon l'une quelconque des revendications ci-dessus, dans lequel le panneau supérieur de fermeture est adapté pour fonctionner comme un plateau de réception pour objets, ou possède à sa surface supérieure une structure de type portemanteau pour suspendre des vêtements ou inclut une ouverture pour recevoir des enveloppes ou des objets similaires, ou est doté d'une porte d'accès supérieure qui pivote sur un gond, ou comprend une ou plusieurs ouvertures destinées à recevoir un parasol ou les coulisses pour placer un panneau d'affichage, une banderole publicitaire ou des objets similaires, ou il peut comprendre une ou plusieurs ouvertures destinées à accueillir le câblage d'un équipement électronique. 25 30 35 40
8. Un module selon la revendication 1, qui comprend un panneau de base (14), un panneau supérieur de fermeture (12) et une cloison laminaire (30) qui est un module de connexion adapté pour permettre l'union de deux, de trois modules elliptiques ou plus, selon l'une quelconque des revendications ci-dessus, et dont la cloison laminaire (30) est moins haute que les modules devant être connectés. 45
9. Un module de connexion selon la revendication 8, dans lequel le module de connexion est un module droit ou courbe (17) adapté pour permettre l'union de deux modules elliptiques selon l'une quelconque des revendications 1 à 7, ce module de connexion présentant un panneau supérieur de fermeture (18) de forme allongée, qui peut être droit ou en arc de cercle et un panneau de base (18') correspondant dans la forme du panneau supérieur de fermeture (18), le panneau supérieur de fermeture (18) et le panneau de base (18') étant formé de deux enfoncements concaves suivant la même courbure que celle de la cloison d'un module elliptique. 50
10. Un système de stations démontables pour exposition ou accueil des clients qui comprend un ou plusieurs modules selon l'une quelconque des revendications 1 à 7 et un ou plusieurs modules de connexion (17) selon la revendication 9. 55
11. Un système de stations démontables pour exposition ou accueil des clients qui comprend une pluralité de modules selon l'une quelconque des revendications 1 à 7, disposé dans un cercle et uni à un ou plusieurs modules de connexion courbes (17) selon la revendication 9.
12. Un système de stations démontables pour l'exposition ou accueil des clients qui comprend une pluralité de modules selon l'une quelconque des revendications 1 à 7, disposé sur une ligne droite et uni par un ou plusieurs modules de connexion droits (17) selon la revendication 9.
13. Un système de stations démontables pour exposition ou accueil des clients qui comprend une pluralité de modules selon l'une quelconque des revendications 1 à 7, disposé sur une formation rectangulaire ou ovale et uni par un ou plusieurs modules de connexion droits (17) et par un ou plusieurs modules de connexion courbes (17) selon la revendication 9.
14. Un module de connexion selon la revendication 8, dans lequel le module de connexion est adapté pour permettre l'union de trois modules, et présente un panneau supérieur de fermeture (42) de forme substantiellement triangulaire avec des enfoncements concaves aux sommets qui suivent la même courbure que celle de la cloison d'un module elliptique, et un panneau de base (43) qui correspond dans sa forme au panneau supérieur de fermeture (42).
15. Un système de stations démontables pour expositions ou accueil des clients selon la revendication 10, qui comprend trois modules ou plus selon l'une quelconque des revendications 1 à 7 disposés en une ou plusieurs formations "Y", les modules de chaque formation "Y" étant reliés par un module de connexion selon la revendication 14.
16. Un système de stations démontables pour exposition ou accueil des clients selon l'une quelconque des revendications 10, 11, 12, 13, ou 15, dans lequel les cloisons des modules de connexion présentent une bande d'attaches verticales de type bavure sur ses parties latérales, qui permet l'union détachable des modules collecteurs au tissu qui se trouve sur

la superficie extérieure des cloisons des modules elliptiques.

17. Un système de stations démontables pour expositions ou accueil des clients qui comprend un module elliptique selon l'une quelconque des revendications 1 à 7 et un module d'oreille (11'), le module d'oreille comprenant un panneau de base (14), un panneau supérieur de fermeture (9, 9'), et une cloison laminaire (11) qui forme un corps cylindrique s'étendant verticalement, d'au moins une section transversale partiellement elliptique, qui s'étend entre le panneau de base et le panneau supérieur de fermeture;

la hauteur de la cloison du module d'oreille est moindre que celle de la cloison du module elliptique ; et

le panneau supérieur de fermeture et le panneau de base du module d'oreille sont formés à leur extrémité (7, 6') par un renforcement pour communiquer avec la forme externe de la cloison du module elliptique.

18. Un système de stations démontables pour expositions ou accueil des clients selon la revendication 17, dans lequel le panneau de base de ce module d'oreille est formé d'éléments plats, rigides et étroits (22) qui s'étendent et sont reliés fermement tout au long du bord inférieur de cette cloison, et une cloison de fond rigide (13) dont la surface du bord latéral est fermement ancrée à la partie supérieure de ces éléments plats, rigides et étroits.

19. Un système de stations démontables pour expositions ou accueil des clients selon la revendication 17 ou la revendication 18, dans lequel le bord supérieur de la cloison verticale du module d'oreille est relié au panneau supérieur de fermeture tout au long du bord intérieur d'une aire marginale qui s'étend tout au long entre le bord supérieur de cette cloison verticale et le bord latéral extérieur de ce panneau supérieur de fermeture.

20. Un système de stations démontables pour exposition au accueil des clients selon l'une quelconque des revendications 17 à 19, dans lequel le panneau supérieur de fermeture (9') du module d'oreille a une forme généralement carrée, l'un des côtés présentant un renforcement pour s'adapter à la courbure finale de la cloison d'un module elliptique.

21. Un système de stations démontables pour exposition ou accueil des clients selon l'une quelconque des revendications 17 à 20, qui comprend un module elliptique et une pluralité de modules d'oreille (11') placés sur une colonne qui s'étend depuis le module elliptique, où les hauteurs des modules d'oreille (11') diminuent dans la mesure où leur position sur cette

colonne est plus éloignée du module elliptique.

22. Un système de stations démontables pour exposition ou accueil des clients selon l'une quelconque des revendications 17 à 21, qui comprend un module elliptique, un nombre de modules d'oreille (11') placés pour s'étendre dans une première direction depuis le module elliptique, et un nombre de modules d'oreille (11') disposés pour s'étendre dans une seconde direction, opposée à la première, depuis le module elliptique, et où les hauteurs des modules d'oreille (11') diminuent dans la mesure où leurs positions sont plus éloignées du module elliptique.

23. Un système de stations démontables pour exposition ou accueil des clients selon l'une quelconque des revendications 17 à 22, dans lequel les bords latéraux des cloisons (11) des modules d'oreille sont dotés d'une bande d'attaches verticales de type bavuure sur leurs bords latéraux, qui permet l'union détachable des modules d'oreille au textile se trouvant à la surface extérieure des cloisons des modules elliptiques.

24. Un système de stations démontables pour exposition ou accueil des clients selon l'une quelconque des revendications 1 à 7, dans lequel le panneau supérieur de fermeture, et le panneau de base ou la cloison, comprend une ou plusieurs repères pour aider à l'alignement des parties du modèle durant l'assemblage.

25. Un module pour un système de stations démontables pour exposition ou accueil des clients selon l'une quelconque des revendications 1 à 7, qui comprend en outre une structure supérieure démontable sur le panneau supérieur de fermeture, la structure supérieure comprend un panneau avant, un panneau arrière, dont l'un ou les deux sont faits d'un matériau transparent, et de panneaux latéraux, la structure supérieure comprend en plus une ou plusieurs sources de lumière dans l'espace intérieur formé par le panneau frontal, le panneau arrière et les panneaux latéraux qui permettent l'illumination d'une publicité ou d'un objet similaire placé sur l'un des panneaux arrière ou avant.

26. Un module selon la revendication 25, dans lequel le panneau avant et le panneau arrière sont carrés ou trapézoïdaux, et les panneaux latéraux sont triangulaires et sont supportés par les panneaux avant et arrière.

27. Un module selon la revendication 25 ou la revendication 26, dans lequel les panneaux avant et arrière sont dotés d'un tissu adapté spécialement pour recevoir les articles d'exposition.

28. Un module selon l'une quelconque des revendications 25 à 27, dans lequel les panneaux avant et arrière sont dotés de tablettes placés à des distances déterminées de manière à pouvoir recevoir des CD, des livres ou des objets similaires. 5
29. Un module selon l'une quelconque des revendications 25 à 28, dans lequel les panneaux arrière, avant et latéraux possèdent des tablettes qui entourent totalement la structure supérieure. 10
30. Un module selon l'une quelconque des revendications 25 à 29, qui possède une structure supérieure comprenant un ou plusieurs plateaux perforés ou non perforés. 15
31. Un module selon la revendication 25, qui possède une structure supérieure comprenant un panneau central adapté en sillons verticaux centraux de deux panneaux latéraux qui forment une structure en forme de "H", pour une vue en coupe, et une pluralité de tablettes adaptées en sillons disposés sur les faces internes des panneaux latéraux pour former une série d'étagères, les panneaux latéraux ayant également une pluralité d'étagères sur leurs faces extérieures. 20 25

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Clasificación Internacional (IPC): A47F 1/00; A47F 3/06.

Concepto Técnico No. 3412

Patente de Invención ☒ Patente de Modelo de Utilidad ☐

Vía Nacional ☒

Vía PCT (fase nacional) ☐ Cap. I ☐ Cap. II ☐

No. Sol. Internacional

Fecha de Presentación Internal.

Como resultado del examen definitivo, realizado con fundamento en el artículo 48 de la Decisión 486 de la Comisión de la Comunidad Andina, se le comunica:

1. Documentos estudiados

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|------|-----------------------------------|---|---|
| 1.1. | <u>Descripción:</u> | Folios: 4 a 43
Folios: 118 a 132 | como se radicó inicialmente.
revisada. |
| 1.2. | <u>Reivindicaciones:</u> | Folios: 44 a 57
Folios: 133 a 138
Folios: 275 a 281 | como se radicó inicialmente.
corregidas.
modificadas. |
| 1.3. | <u>Dibujos:</u> | Folios: 58 a 109 | como se radicó inicialmente. |
| 1.4. | <u>Respuesta del solicitante:</u> | Folios: 263 a 300 | |

2. Objeto de la invención

Título de la solicitud: "Sistema de estaciones desarmables, ultralivianas, para exhibir artículos y atender clientes".

El objeto de la presente solicitud de patente de invención consiste en un sistema de estaciones desarmables para exhibir artículos y atender clientes.

El problema planteado en esta solicitud se debe a que los exhibidores normalmente en uso comercial, han estado constituidos por una estructura generalmente metálica, en los cuales las características mecánicas, relativas a su peso, manejo para su ensamblaje, desmontaje, facilidades de almacenamiento y transporte, no resultan ser del todo satisfactorias.

Por otra parte, para el usuario de este tipo de exhibidores del arte anterior, el diseño de los mismos no va más allá del que ofrece el fabricante, impidiendo al usuario crear nuevas disposiciones y configuraciones del exhibidor.

Para solucionar este problema técnico la solicitud en estudio proporciona un sistema de estaciones desarmables para exhibir y atender clientes, que

puede unirse a un módulo conector, a un módulo de oreja, o aplicaciones múltiples de exhibición.

El objeto de la invención definido anteriormente se clasificó de acuerdo con el IPC así: A47F 1/00; A47F 3/06.

3. Determinación del Estado de la Técnica

Considerando que la fecha de presentación de la solicitud de patente de invención es: Fecha de presentación de la solicitud nacional, 2002-06-25, se buscaron documentos relacionados en el estado de la técnica, con fecha de publicación anterior a ésta.

Consultadas las bases de datos y los archivos con que cuenta la entidad, no se encontró documento alguno que afecte la patentabilidad.

4. Análisis de patentabilidad (artículo 14 D486)

4.1. Novedad (artículo 16 D486)

La solicitud en estudio se definió por el capítulo reivindicatorio, compuesto por la reivindicación independiente 1 y las reivindicaciones dependiente 2 a 31 en los folios número 275 a 281.

Las reivindicaciones 1 a 31, se refieren a un módulo universal desarmable, para exhibir artículos y atender clientes, el cual es la base del sistema de estaciones desarmables.

Teniendo en cuenta la materia reivindicada y de acuerdo con la definición de novedad del Artículo 16 de la Decisión 486 de la Comisión de la Comunidad Andina, se determina que la solicitud en estudio **es novedosa**, toda vez que realizada la búsqueda de anterioridades en los archivos, como se expresó en el numeral 3., no se encontró documento alguno cuyas características técnicas sean iguales a las definidas por la presente solicitud.

4.2. Nivel inventivo (artículo 18 D 486)

Dado que el objeto reivindicado presenta características que no constituyen una derivación evidente del estado de la técnica, se puede establecer que dicho objeto reivindicado cumple con el requisito de **nivel inventivo**.

4.3. Aplicación industrial (artículo 19 D 486)

De acuerdo con el artículo 19 de la Decisión 486 de la Comisión de la Comunidad Andina, se considera que la invención titulada: "Sistema de estaciones desarmables, ultralivianas, para exhibir artículos y atender clientes", **es susceptible de aplicación industrial** porque puede ser producida o utilizada en la industria.

5. Conclusión:

En consecuencia y por todo lo expuesto anteriormente, se recomienda **conceder** las reivindicaciones 1 a 31 (folios: 275 a 281).

Bogotá, D.C.,

CONCEPTO TECNICO No. 3412	EXAMINADOR TECNICO Código No. 202065
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