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INSECT SCREEN WITH BOX EQUIPPED WITH PROFILES FOR GUIDING AND FACILITATING THE SLIDING OF THE PROTECTION NET

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Insect screen with box equipped with profiles for guiding and facilitating the sliding of the protection net comprising a box internally equipped with a revolving winding roller, engaging, for winding and unwinding, a protection net, which protection net itself is engaged with an end to the winding roller around which last is wound in order then to be unwound, coming out from under the box through a longitudinal slit, said protection net, with the end opposite to the one engaged to the winding roller, being engaged to a handlebar, in which the box, at least near the longitudinal slit, is equipped with two opposite and specular shaped profiles in which at least one shaped profile is made in such a way as to comprise at least one concave portion and at least one convex portion.

**INSECT SCREEN WITH BOX EQUIPPED WITH PROFILES FOR GUIDING
AND FACILITATING THE SLIDING OF THE PROTECTION NET**

[0001] The present invention relates to an insect screen with box equipped with profiles for guiding and facilitating the sliding of the protection net.

Field of the invention

[0002] The invention is applicable particularly, but not exclusively, to the sector of the industry for the production and marketing of screening devices and systems for building openings such as, in particular, insect screens, for example insect screens for doors and windows with vertical sliding, being applicable in particular to the industry for the production and preeminent marketing of insect screens and net-barrier elements for equipping building openings and widely in the industry for the production and marketing of components and accessories for frames.

[0003] In order to supply a screen which prevents the access of insects to inhabited spaces, all those long- and well-known barriers solutions, commonly indicated with the term insect screen, are usually supplied as equipment for doors, windows and skylights and are traditionally made of nets with dense mesh, each one having such dimensions as to prevent insects from crossing them, even if insects have limited dimensions, in any case said barriers being structured to prevent at least the most commonly annoying insects from entering. In an insect screen solution of the traditional type, it is provided a rigid frame bearing a dense mesh net having a suitable area according to the intended purpose, said frame being perimetrically compatible with the measures of the door or window opening which is intended to be equipped with the insect screen itself. According to the current, most common solutions, insect screens can be divided into two categories. A first category, the so-called "measure", is a type of insect screen made at the origin according to measures received by the customer and for its

installation qualified personnel is required and a second category, indicated as insect screen in assembly kit, which usually can be installed by non-qualified personnel. With reference to both of the above-mentioned categories of insect screens, even though with prevailing reference to the category of insect screens in assembly kit, it is possible to find common construction elements, concretizing in the box of the type generally consisting of an aluminum extruded profile, in which the winding roller of the protection net of the insect screen is coaxially inserted and it retains a first end of said protection net. By means of said box, the protection net comes out from a suitable longitudinal opening, and it has the second end joined to a handlebar which is movable back and forth with respect to the box. In some solutions, the winding roller can also comprise a corresponding pre-loaded return spring to facilitate the rewinding of the protection net. Furthermore, as for the box ends, they are usually closed by suitable plates, which are supplied together with counter-plates of the adjustable type. In this solution, the box is provided with one or more guides or sliding elements, within which the end of the handlebar and the corresponding side edge of the protection net slide back and forth. Among various solutions of insect screens, other variants are also known, such as for example horizontally sliding insect screens, instead of vertically sliding insect screens, which cause the handlebar to make a translation movement which is directed to pull the net along a horizontal axis.

[0004] Also in the present patent literature, some solutions are found of insect screen structures, among which the following are mentioned, as mere examples:

D1 N. IT1304286 (Bonini)

D2 N. ITTV930004 (Bettio)

D3 N. ITTV20020031 (Bettio)

[0005] D1 briefly describes an insect screen for fast installation, comprising two identical and parallel guides in contact with the jambs of the window, at the top of

which a box is fixed, containing the winding roller of the net and means for the automatic re-winding of the same net, said box being suitable for being placed on the upper part, in contact with the lintel of the window; said box being equipped with a lower, full-length opening for the shielding net to pass through, together
5 with first upper elastic means, by means of which the box is in contact with the lintel of the window space and with second side elastic means by means of which the box is in contact with the jambs of the window space. Said first elastic means consisting of two leaf springs anchored along the upper side of the box, the function of which is to keep the insect screen elastically blocked in the window
10 space in vertical direction. With reference to the second elastic means, they consist of a compression spring, acting in a horizontal direction between at least one of the plugs engaging the corresponding end of the torsion-spring and the respective external flange.

[0006] D2 briefly describes an insect screen and a device for blocking the relative
15 components particularly in the packaging of a do-it-yourself kit, of the type consisting of a box inside of which a winding roller of the protection net and the corresponding pre-loaded return spring are previously inserted; said box providing on one side a kind of plate, associated to the profile, suitable for the engagement of the key of the loading pin of the spring, on the other side a
20 disposable accessory made up of a cross element provided with means for supporting the other end of the winding roller and of the handlebar, being externally adjacent to one side of said box to be cut, for finally being replaced by a separated plate for supporting the winding roller only, which can be definitively engaged to the new end of a box to size so obtainable.

[0007] D3 briefly describes a solution of insect screen structure for doors or
25 windows of the fast assembly type comprising a box inside of which a winding roller for winding and vice-versa a protection net possibly cooperating with the

corresponding return spring, closed at its ends by plates in the form of caps of which at least one end is provided with supporting means of the corresponding end of the winding roller and two sliding elements placed in correspondence with and coupled to the ends of the box provided with longitudinal opening, defining
5 rectilinear guides for the controlled sliding of the side ends of the protection net; in which at least one of the plates cooperates for fixing the insect screen with a corresponding counter-plate, which can be leaned against the space of the opening where the insect screen structure is required, said counter-plate being stressed by elastic deflection means arranged in the plate, and further in which,
10 the latter is provided with a screw device for elastically adjust the distance with respect to the counter plate, whereas the counter plate is provided with a screw device for the elastic adjustment of the distance with respect to the box side from where the protection net comes out, at the end of which sliding elements are placed.

15 Disadvantages

[0008] All the known solutions of insect screen systems of prior art have deficiencies and limits, which cause consequent disadvantages.

[0009] According to the applicant, a first disadvantage characterizing all the solutions of insect screen structures of known prior art, has been verified in that
20 all said known solutions are not suitable for allowing a sliding of the protection net which is guided and simplified at the same time.

[0010] According to the applicant, a second disadvantage characterizing all the solutions of insect screen structures of known prior art, has been verified in that
25 all said known solutions do not allow to keep the protection net in the center of the longitudinal slit in a guided way, during its winding and unwinding movement.

[0011] According to the applicant, a third disadvantage characterizing all the solutions of insect screen structures of known prior art, has been verified in that

all said known solutions are not optimized in terms of facilitating the winding and unwinding of the protection net contributing to increase its duration, reducing wearing.

[0012] As a whole, according to these introductory considerations, it can be understood that it is a priority to identify alternative solutions.

[0013] The aim of the present invention is also to avoid the above-mentioned disadvantages.

Summary of the invention

[0014] This and other aims are reached by the present invention according to the characteristics as in the included claims solving the problems arising by means of an insect screen with box equipped with profiles for guiding and facilitating the sliding of the protection net comprising a box internally equipped with a revolving winding roller, engaging, for winding and unwinding, a protection net which protection net itself has an end engaged to the winding roller, around which last said protection net is wound in order to be then unwound, coming out downwardly from the box through a longitudinal slit, said protection net with the end opposite with respect to the one engaged to the winding roller, being engaged to a handlebar, in which the box, at least near the longitudinal slit is equipped with two opposite and specular shaped profiles in which at least one shaped profile is made in such a way as to comprise at least one concave portion and at least one convex portion.

Aims and advantages

[0015] In this way, thanks to the considerable creative contribution the effect of which constitutes an immediate technical progress, multiple advantages are achieved.

[0016] A first advantageous aim characterizing the insect screen with box equipped with profiles for guiding and facilitating the sliding of the protection net

according to the invention is to allow a sliding of the protection net which is both guided and facilitated.

[0017] A second advantageous aim characterizing the insect screen with box equipped with profiles for guiding and facilitating the sliding of the protection net according to the invention is to allow to keep the protection net in the center of the longitudinal slit in a guided way during its winding and unwinding movement.

[0018] A third advantageous aim characterizing the insect screen with box equipped with profiles for guiding and facilitating the sliding of the protection net according to the present solution is to allow, by facilitating the sliding of the protection net during the winding and the unwinding of the same, to significantly contribute to increase the useful life of the same protection net, appropriately limiting its wearing.

[0019] These and other advantages will appear in the following detailed description of some preferred embodiments with the aid of the enclosed schematic drawings.

Content of the drawings

Figure 1 shows a sectional view of the box of the insect screen according to the subject matter of the present invention with associated shaped profiles;

Figure 2 shows a cross sectional view of the box of the insect screen according to the subject matter of the present invention with associated the shaped profiles

Figure 3 shows a view of the shaped profile of the insect screen with box equipped with profiles for guiding and facilitating the sliding of the protection net according to the subject matter of the present invention;

Figure 4 shows a sectional view of the shaped profile of the insect screen with box equipped with profiles for guiding and facilitating the sliding of the protection net according to the subject matter of the present invention;

Figure 5 shows a cross sectional view of the shaped profile of the insect screen with box equipped with profiles for guiding and facilitating the sliding of the protection net according to the subject matter of the present invention.

Practical execution of the invention

5 **[0020]** With reference also to the representations of figures from 1 to 5 an insect screen (1) is described with box equipped with profiles for guiding and facilitating the sliding of the protection net in which, as particularly represented in the representation of figure 1, showing a base solution of the proposed invention, an insect screen (1) is equipped with a box (2) provided with suitable shaped profiles
10 (3) for guiding and facilitating the sliding of the protection net (4). The insect screen (1) according to the invention can be both of the vertically sliding type, in which the sliding of the protection net (4) occurs along the vertical axis, and of the horizontal sliding type, in which the sliding of the protection net (4) occurs along the horizontal axis, said sliding of the protection net (4) being guided in a
15 known way by means of known devices suitable for guiding the protection net (4) in its unwinding and winding in order to close and open the architectonic opening of the building equipped with the protection net (1). By way of example but not limited to it, for what concerns the vertically sliding insect screens, the insect screen (1), in order to allow the guided sliding of the protection net (4) when
20 opening and closing the architectonic opening of the building equipped with said insect screen, is equipped with known commitment stanchions and known vertical guide stanchions which are intended for cooperating in the stable engagement of the box (2) and during downward and upward guiding of the protection net (4) of the insect screen (1).

25 **[0021]** Furthermore, and in a known way, the insect screen according to the invention is suitably equipped with a handlebar, which, in a known way, engages the end of the protection net (4) coming out from the box (2), in such a way as to

allow the user to carry out the stretching and re-winding movements of the same protection net (4). The insect screen (1) according to the invention, moreover, can be equipped with all of those known devices that allow its functionality, depending on its particular purpose. In more detail of the solution subject matter of the invention, it is provided that the box (2) of the insect screen (1) is made in known way, wherein it consists of a box-like element, preferably made of metal, in the example being made of extruded aluminum, said box (2) being suitably and in a known way structured for functionally internally comprise a revolving winding roller (5) which last is longitudinally placed inside the box (2), and in which the winding roller (5) is suitably and in a known way made to engage an end of the protection net (4), opposite to the end engaged to the handlebar, in such a way as to allow the same protection net (4), to be moved during unwinding and winding. Said protection net (4) passes-through a suitable longitudinal slit (21) with which the same box (2) is equipped, allowing in this way the sliding of the protection net (4) along the sliding axis, which, according to the example, is vertical. Furthermore, it may also be possible that, for the purpose of suitably keeping the protection net (4) under tension, the insect screen (1) according to the invention, can be equipped with known tensioning devices among which, by way of example only, a spiral loading spring may be comprised, which is constrained with an end to the box (2) and with the other end to the winding roller (5).

[0022] Innovatively, as particularly represented in the representations of figure 1 and of figure 2, it is provided that the box (2), for the purpose of guiding and facilitating the sliding of the protection net (4) during unwinding and winding movements, is equipped with two opposite shaped profiles (3) made in such a way as to act both as a guide for the protection net (4) during its movement downward and upward, and to facilitate its passage through the longitudinal slit

(21) of the box (2). More in detail of the described embodiment, as particularly represented in figure 1 and in figure 2, it is provided that the box (2) of the insect screen (1) is made in such a way as to allow the engagement, at the lower longitudinal portion of the same box, of a couple of shaped profiles (3) which are identically made, being arranged in a specular way with respect to each other. Particularly, in the described embodiment, as represented in detail in figure 2, it is provided that the box (2) includes, at the lower portion, intended for the engagement of said shaped profiles (3), a first protruding end (22) and a second protruding end (23) which last are placed near the longitudinal slit (21), furthermore, always for the purpose of allowing the engagement of said shaped profiles (3), it is provided that the box (2) is equipped with a first retaining profile (24) and with an opposite second retaining profile (25), wherein said first retaining profile (24) is placed near the lower part of the first side (26) of the box (2), whereas the second retaining profile (25) is placed near the second side (27) of the box (2).

[0023] In order to allow the engagement to said protruding end (22, 23) and to the retaining profile (24, 25) of the box (2), it is provided that the shaped profile (3) according to the present invention is suitably made, as particularly represented in figure 5, in such a way as to include a first hooking profile (31) and a second hooking profile (32), shaped in such a way as to be suitable for the constraint respectively to the retaining profile (24, 25) and to the protruding end (22, 23) of the box (2). Alternatively, in any case it is provided that the shaped profile (3) may be constrained to the box (2) also by means of the use of known devices or technical measures that allow the constraint. More in detail of the solution subject matter of the invention, it is provided that the shaped profile (3), in order to be suitable for guiding and facilitating the sliding of the protection net (4), is made in such a way as to be shaped as particularly represented in figure

5, considering that said shaped profile itself (3) forms a concave portion (33) to which a convex portion (34) is joined, in particular being particularly favorable a radius of the concave portion (33) described by an arc of a circle whose radius is between 15 mm and 25 mm, whereas the radius of the convex portion (34) was found to be particularly favorable with the aim of guiding and facilitating the sliding of the protection net (4) when it is described by an arc of a circle whose radius is between 5 mm and 10 mm. In order to facilitate the sliding of the protection net (4) it is provided that the shaped profile (3) can be made of a material of the known type with low friction coefficient. Furthermore, it is provided that the shaped profile (3) is made in such a way that it preferably extends at least for the whole width of the protection net (4).

REFERENCE

- (1) insect screen
- (2) box
- (21) longitudinal slit
- 5 (22) first protruding end
- (23) second protruding end
- (24) first retaining profile
- (25) second retaining profile
- (26) first side
- 10 (27) second side
- (3) shaped profile
- (31) first hooking profile
- (32) second hooking profile
- (33) concave portion
- 15 (34) convex portion
- (4) protection net
- (5) winding roller

Conclusies

1. Insectenhor met een kast die uitgerust is met profielen voor het geleiden en het vergemakkelijken van het schuiven van het beschermingsgaas, die een kast (2) omvat die binnenin uitgerust is met een draaiende wikkelrol (5), die zich, voor op- en afwikkelen, in aangrijping bevindt met een beschermingsgaas (4), waarbij dat beschermingsgaas (4) zelf een uiteinde heeft dat zich in aangrijping bevindt met de wikkelrol (5), waarrond het wordt gewikkeld om vervolgens te worden afgewikkeld, en daarbij van onder aan de kast (2) naar buiten komt via een langwerpige sleuf (21), waarbij het genoemde beschermingsgaas (4), met het uiteinde tegenover het uiteinde dat zich in aangrijping bevindt met de wikkelrol (5), zich in aangrijping bevindt met een handgreepstang, waarbij de kast (2), ten minste in de nabijheid van de langwerpige sleuf (21), uitgerust is met twee tegenover elkaar gelegen en als elkaars spiegelbeeld gevormde profielen (3), waarbij ten minste één gevormd profiel (3) op zodanige wijze is gemaakt dat het ten minste één concaaf gedeelte (33) en ten minste één convex gedeelte (34) omvat, **met het kenmerk dat** de straal van het concave gedeelte (33) van het gevormde profiel (3) wordt beschreven door een cirkelstraal tussen 15 mm en 25 mm en de straal van het convexe gedeelte (34) van het gevormde profiel (3) wordt beschreven door een cirkelstraal tussen 5 mm en 10 mm.

2. Insectenhor (1) met een kast die uitgerust is met profielen voor het geleiden en het vergemakkelijken van het schuiven van het beschermingsgaas volgens de voorgaande conclusie, **met het kenmerk dat** ten minste één gevormd profiel (3) één concaaf gedeelte (33) omvat waarmee een convex gedeelte (34) is verbonden.

3. Insectenhor (1) met een kast die uitgerust is met profielen voor het geleiden en het vergemakkelijken van het schuiven van het beschermingsgaas volgens ten minste één van de voorgaande conclusies, **met het kenmerk dat** het gevormde profiel (3) gemaakt is van een materiaal met een lage wrijvingscoëfficiënt.

4. Insectenhor (1) met een kast die uitgerust is met profielen

voor het geleiden en het vergemakkelijken van het schuiven van het beschermingsgaas volgens ten minste één van de voorgaande conclusies, **met het kenmerk dat** de lengte van het gevormde profiel (3) ten minste gelijk is aan de breedte van het beschermingsgaas (4).

- 5 **5.** Insectenhor (1) met een kast die uitgerust is met profielen voor het geleiden en het vergemakkelijken van het schuiven van het beschermingsgaas volgens ten minste één van de voorgaande conclusies, **met het kenmerk dat** de kast (2), in overeenstemming met de langwerpige sleuf (21), uitgerust is met ten minste één eerste uitstekend uiteinde (22) en een tweede
- 10 uitstekend uiteinde (23) en, in overeenstemming met de zijden (26, 27), voorzien is van ten minste één eerste vasthoudprofiel (24) en een tweede vasthoudprofiel (25), en waarbij het gevormde profiel (3) ten minste één eerste haakprofiel (31) en een tweede haakprofiel (32) omvat die op zodanige wijze zijn gevormd dat ze compatibel zijn om respectievelijk te worden vastgemaakt aan
- 15 het vasthoudprofiel (24, 25) en aan het uitstekende uiteinde (22, 23) van de kast (2).

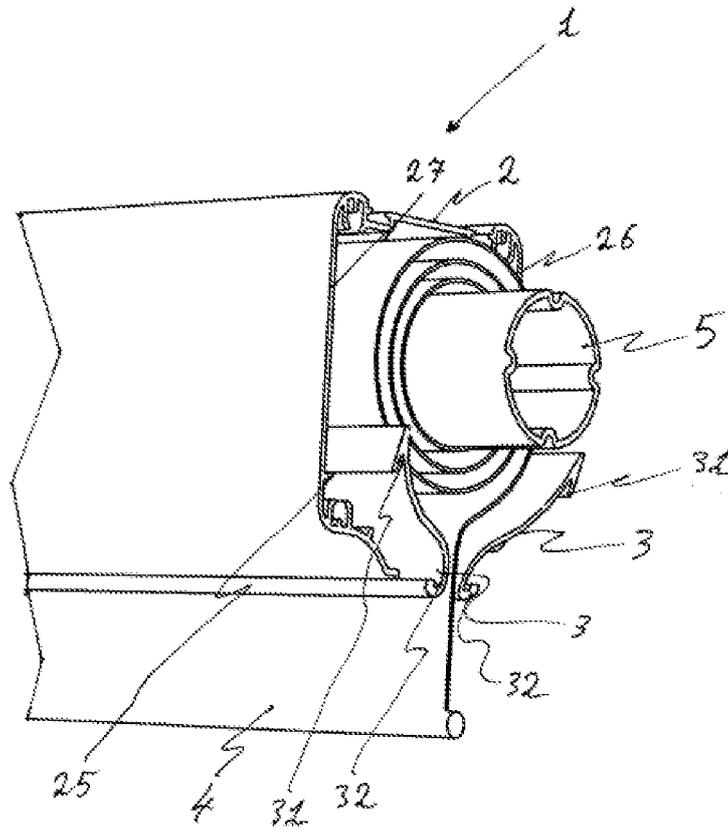


Fig. 1

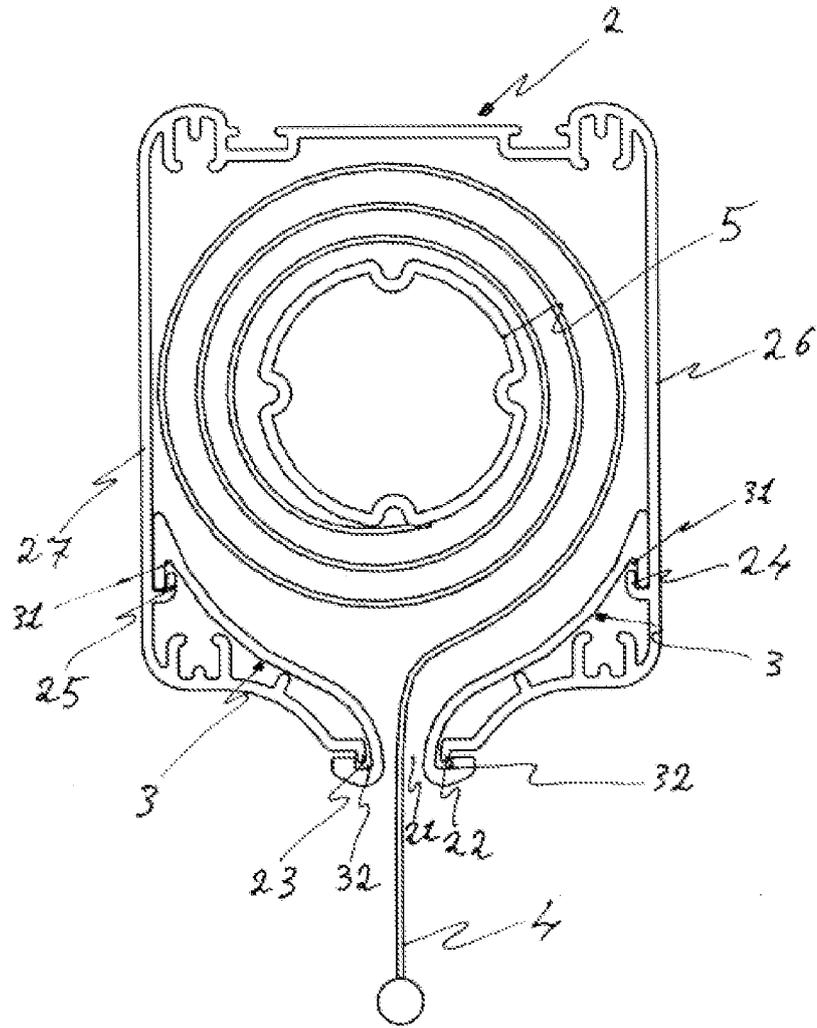


Fig. 2

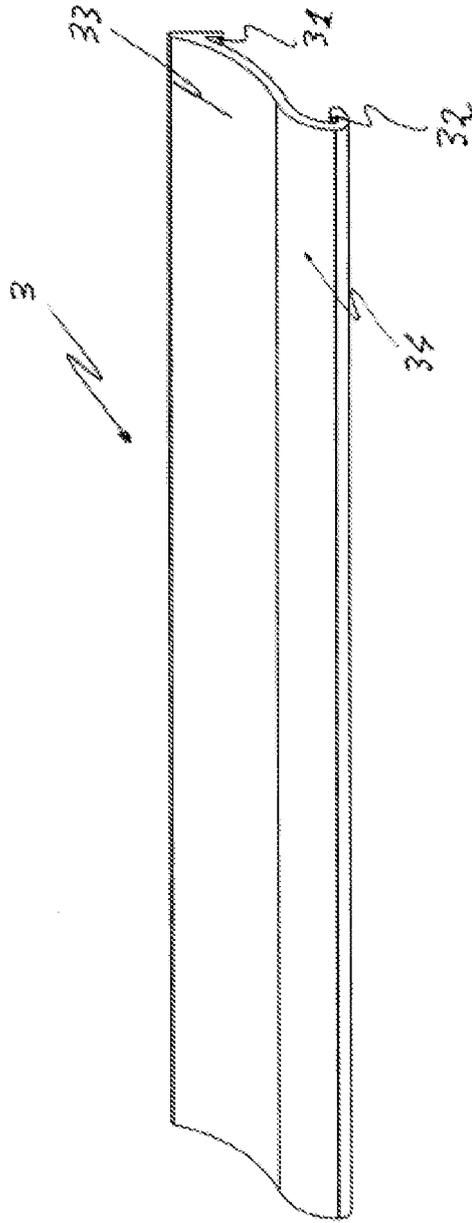


Fig. 3

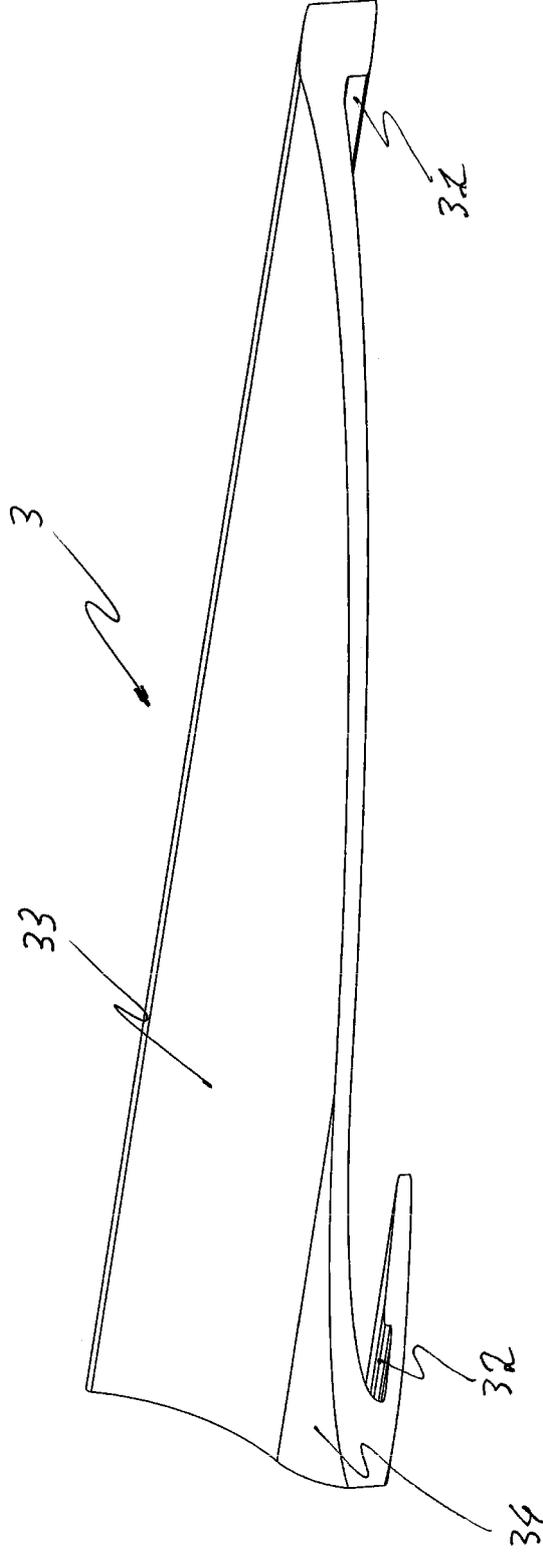


Fig. 4

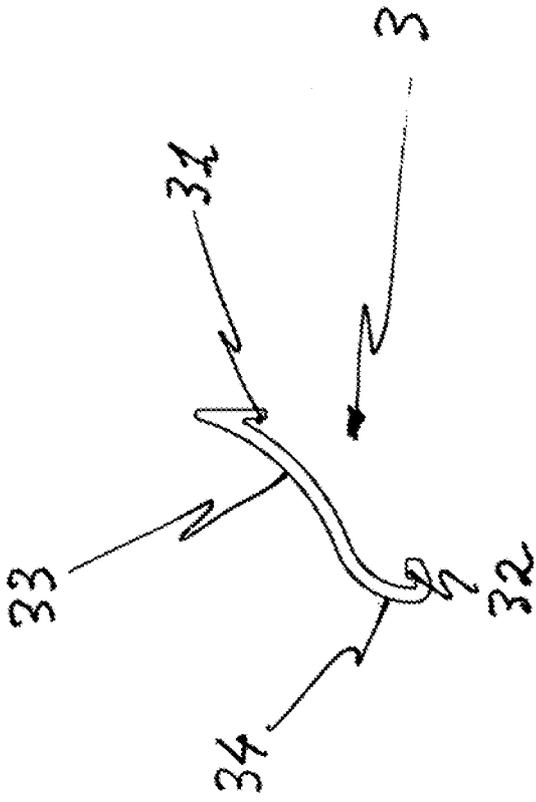


Fig. 5



ONDERZOEKSRAPPORT

BETREFFENDE HET RESULTAAT VAN HET ONDERZOEK NAAR DE STAND VAN DE TECHNIEK

RELEVANTE LITERATUUR

Categorie ¹	Literatuur met, voor zover nodig, aanduiding van speciaal van belang zijnde tekstgedeelten of figuren.	Van belang voor conclusie(s) nr:	Classificatie(IPC)
X	<p>EP 3 056 650 A1 (BETTIO SERVICE SPA [IT]) 17 augustus 2016 (2016-08-17) * figuren 8,9 * * alineas [0001], [0030], [0031], [0040] * -----</p>	1-6	INV. E06B9/54
A	<p>US 2005/274462 A1 (NYFFENEGGER JURG [CH] ET AL) 15 december 2005 (2005-12-15) * figuur 2 * * alineas [0001], [0013], [0027], [0031] *</p>	1	
A	<p>DE 198 09 025 A1 (POESTGES KARL HEINZ [DE]) 30 september 1999 (1999-09-30) * figuren 1,4 * * kolom 1, regel 3 - regel 18 * * kolom 3, regel 31 - regel 45 * -----</p>	1	
Indien gewijzigde conclusies zijn ingediend, heeft dit rapport betrekking op de conclusies ingediend op:			Onderzochte gebieden van de techniek
Plaats van onderzoek: München			Datum waarop het onderzoek werd voltooid: 5 oktober 2023 Bevoegd ambtenaar: Tänzler, Ansgar

¹ NDERLINCATEGORIE VAN DE VERMELDE LITERATUUR

X: de conclusie wordt als niet nieuw of niet inventief beschouwd ten opzichte van deze literatuur
Y: de conclusie wordt als niet inventief beschouwd ten opzichte van de combinatie van deze literatuur met andere geciteerde literatuur van dezelfde categorie, waarbij de combinatie voor de vakman voor de hand liggend wordt geacht
A: niet tot de categorie X of Y behorende literatuur die de stand van de techniek beschrijft
O: niet-schriftelijke stand van de techniek
P: tussen de voorrangsdatum en de indieningsdatum gepubliceerde literatuur

T: na de indieningsdatum of de voorrangsdatum gepubliceerde literatuur die niet bezwarend is voor de octrooiaanvraag, maar wordt vermeld ter verheldering van de theorie of het principe dat ten grondslag ligt aan de uitvinding
E: eerdere octrooi(aanvraag), gepubliceerd op of na de indieningsdatum, waarin dezelfde uitvinding wordt beschreven
D: in de octrooiaanvraag vermeld
L: om andere redenen vermelde literatuur
&: lid van dezelfde octrooifamilie of overeenkomstige octrooipublicatie

**AANHANGSEL BEHORENDE BIJ HET RAPPORT BETREFFENDE
HET ONDERZOEK NAAR DE STAND VAN DE TECHNIEK,
UITGEVOERD IN DE OCTROOIAANVRAGE NR.**

**NO 142951
NL 2032625**

Het aanhangsel bevat een opgave van elders gepubliceerde octrooiaanvragen of octrooien (zogenaamde leden van dezelfde octrooifamilie), die overeenkomen met octrooischriften genoemd in het rapport.

De opgave is samengesteld aan de hand van gegevens uit het computerbestand van het Europees Octrooibureau per De juistheid en volledigheid van deze opgave wordt noch door het Europees Octrooibureau, noch door het Bureau voor de Industriële eigendom gegarandeerd;; de gegevens worden verstrekt voor informatiedoeleinden.

05-10-2023

In het rapport genoemd octrooigeschrift	Datum van publicatie	Overeenkomend(e) geschrift(en)	Datum van publicatie
EP 3056650 A1	17-08-2016	EP 3056650 A1	17-08-2016
		ES 2639645 T3	27-10-2017

US 2005274462 A1	15-12-2005	AU 2003233746 A1	02-02-2004
		CN 1668826 A	14-09-2005
		EP 1521896 A1	13-04-2005
		JP 4528119 B2	18-08-2010
		JP 2005532493 A	27-10-2005
		US 2005274462 A1	15-12-2005
		WO 2004007890 A1	22-01-2004

DE 19809025 A1	30-09-1999	GEEN	

SCHRIFTELIJKE OPINIE

DOSSIER NUMMER NO142951	INDIENINGSDATUM 28.07.2022	VOORRANGSDATUM 29.07.2021	AANVRAAGNUMMER NL2032625
CLASSIFICATIE INV. E06B9/54			
AANVRAGER BETTIO FLYSCREENS S.R.L.			

Deze schriftelijke opinie bevat een toelichting op de volgende onderdelen:

- Onderdeel I Basis van de schriftelijke opinie
- Onderdeel II Voorrang
- Onderdeel III Vaststelling nieuwheid, inventiviteit en industriële toepasbaarheid niet mogelijk
- Onderdeel IV De aanvraag heeft betrekking op meer dan één uitvinding
- Onderdeel V Gemotiveerde verklaring ten aanzien van nieuwheid, inventiviteit en industriële toepasbaarheid
- Onderdeel VI Andere geciteerde documenten
- Onderdeel VII Overige gebreken
- Onderdeel VIII Overige opmerkingen

	DE BEVOEGDE AMBTENAAR Tänzler, Ansgar
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Onderdeel I Basis van de Schriftelijke Opinie

1. Deze schriftelijke opinie is opgesteld op basis van de meest recente conclusies ingediend voor aanvang van het onderzoek.
2. Deze motivering is opgesteld, met betrekking tot **nucleotide- en/of aminozuursequenties** die genoemd worden in de aanvraag, op basis van een sequentielijst die:
 - a. is opgenomen in de aanvraag zoals deze oorspronkelijk is ingediend
 - b. aangeleverd is na de indieningsdatum ten behoeve van het onderzoek
 - en vergezeld ging van een verklaring dat de sequentielijst niet meer informatie bevat dan de aanvraag zoals deze oorspronkelijk is ingediend.
3. Deze motivering is opgesteld, met betrekking tot nucleotide- en/of aminozuursequenties die genoemd worden in de aanvraag, voor zover een zinvolle motivering gevormd kon worden zonder een sequentielijst die voldeed aan WIPO standaard ST.26.
4. Overige opmerkingen:

Onderdeel V Gemotiveerde verklaring ten aanzien van nieuwheid, inventiviteit en industriële toepasbaarheid

1. Verklaring

Nieuwheid	Ja: Conclusies 3, 5 Nee: Conclusies 1, 2, 4, 6
Inventiviteit	Ja: Conclusies Nee: Conclusies 1-6
Industriële toepasbaarheid	Ja: Conclusies 1-6 Nee: Conclusies

2. Citaties en toelichting:

Zie aparte bladzijde

Re Item V:

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1 Reference is made to the following document:

D1: EP 3 056 650 A1

Novelty

2 The present application does not meet the criteria of patentability, because the subject-matter of claims 1, 2, 4 and 6 is not new.

2.1 Regarding independent claim 1, the document **D1** discloses (the references in parentheses applying to this document):

Insectenhor (see para. [0030]) met een kast (2, see figures 8 and 9, and para. [0030]) die uitgerust is met profielen (17, see figures 8 and 9, and para. [0040]) voor het geleiden en het vergemakkelijken van het schuiven van het beschermingsgaas (4, see figures 8 and 9, and para. [0030]),

die een kast (2) omvat die binnenin uitgerust is met een draaiende wikkelrol (3, see figures 8 and 9), die zich, voor op- en afwikkelen, in aangrijping bevindt met een beschermingsgaas (4),

waarbij dat beschermingsgaas (4) zelf een uiteinde heeft dat zich in aangrijping bevindt met de wikkelrol (3), waarrond het wordt gewikkeld om vervolgens te worden afgewikkeld, en daarbij van onder aan de kast (2) naar buiten komt via een langwerpige sleuf (see figures 8 and 9),

waarbij het genoemde beschermingsgaas (4), met het uiteinde tegenover het uiteinde dat zich in aangrijping bevindt met de wikkelrol (3), zich in aangrijping bevindt met een handgreepstang,

waarbij dat kast (2), ten minste in de nabijheid van de langwerpige sleuf, uitgerust is met twee tegenover elkaar gelegen en als elkaars spiegelbeeld gevormde profielen (17),

waarbij ten minste één gevormd profiel (17) op zodanige wijze is gemaakt dat het ten minste één concaaf gedeelte (see figures 8 and 9) en ten minste één convex gedeelte (see figures 8 and 9) omvat.

Therefore, an insect screen with all features according to claim 1 is known from **D1**.

2.2 The subject-matter of dependent claims (C) 2, 4 and 6 is also known from **D1**:

C2: see **D1**, figures 8 and 9, reference sign 17

C4: see **D1**, para. [0040]

C6: see **D1**, figures 8 and 9, reference sign 17

Inventive step

3 The present application does not meet the criteria of patentability, because the subject-matter of claims 3 and 5 does not involve an inventive step.

3.1 Dependent claims 3 and 5 do not appear to contain any additional features which involve an inventive step by themselves, because the person skilled in the art would employ them, if required, on the basis of his expert knowledge even if they are not disclosed in or obvious from the cited state of the art.

Regarding claim 3, the mentioned range of values of the radius of the convex portion and of the radius of the concave portion is merely one of several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill, in order to design a suitable guiding profile.

Regarding claim 5, to provide the length of the guiding profile 17 with the same length as the slit of the housing comes within the scope of the customary practice followed by persons skilled in the art.

Thus, even a combination of the features set out in these claims with the features of the independent claim to which they refer would not lead to subject-matter involving an inventive step.