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DESCRIPTION

[0001] The invention relates to a RFID label tag for authentication of a plant container comprising a loop that is dimensioned to snugly fit around a part of the plant container, said RFID label tag comprising further a flat part connected to the loop, wherein the flat part is provided with a RFID chip.

[0002] As from 1976 the applicant provides a system with plant containers to the market embodying a returnable transport item solution. At the time there are 3 ½ million containers in use and 22 million shelves for these containers. Approximately 100,000 users across 22 countries in Europe and elsewhere make use of this system. A problem is that counterfeit containers have entered the market which are of low quality and are the cause of severe problems in the supply chain. The applicant is responsible for repair and maintenance of the containers and the users of the system have agreed to contracts which provides the applicant the required funding for maintaining the system at the desired high quality level. The counterfeit containers are however not subject to contract payments, and this is forming a threat to the system considering that the number of counterfeits is estimated at more than 10% of the total number of containers in the market and potentially growing.

[0003] To ensure authentication of the plant containers that participate in the system mentioned in the previous paragraph, the containers are provided with a RFID label tag comprising a loop that is dimensioned to snugly fit around a part of the plant container, said RFID label tag comprising further a flat part connected to the loop, wherein the flat part is provided with a RFID chip. The problem with this existing RFID label tag is that it can be relatively easy removed from an authentic plant container and placed on a counterfeit one. This is of course detrimental for the reliability of and trust in the system, apart from the fact that maintenance of these counterfeits that are falsely provided with a conventional RFID label tag is still not paid for.

[0004] US2011/0023343 discloses an RFID label tag suitable for authentication of a plant container comprising a loop that is dimensioned to snugly fit around a part of the plant container and provided with the features of the preamble of claim 1, i.e. said RFID label tag comprising a flat part connected to the loop, wherein the flat part is provided with a RFID chip, and wherein the RFID label tag comprises a pre-mounted form wherein the loop is open to receive a part of the plant container and wherein the flat part is separated into two flat part halves, said flat part halves being connected to the loop on opposite sides thereof, and a mounted form wherein the loop is closed and arranged to snugly fit around the part of the plant container when the two flat part halves are joined together, wherein the two flat part halves are provided with a label inlay supported by the two flat part halves, wherein the label inlay is glued to the two flat part halves. Essential to US2011/0023343 is that the tag comprises: a first component having a proximal portion and a distal portion; a second component having a proximal portion and distal portion, an implant receiving cavity formed by the distal portion of the first component and the distal portion of the second component, wherein a planar surface

is formed by the proximal portion of the first component and the proximal portion of the second component, which planar surface extends from the implant receiving cavity such that the planar surface is substantially transverse to a longitudinal axis of the implant received within the implant receiving cavity, the planar surface including indicia.

[0005] It is an object of the invention to provide a RFID label tag which is as much as possible resistant to tampering, and in general can only be removed from an authentic plant container at the expense of irreparable damage to the RFID label tag which then provides visible proof of tampering.

[0006] The RFID label tag of the invention is therefore provided with one or more features mentioned in the appended claims.

[0007] In a first aspect of the invention the two flat part halves of the RFID label tag are provided with a label inlay supported by the two flat part halves, wherein the label inlay is glued to the two flat part halves and a surface of the label inlay facing away from the two flat part halves on which the label inlay is glued is also provided with glue so as to arrange that when the two flat part halves are joined together, the surface of the label inlay that faces away from the two flat part halves is glued to itself.

[0008] In a second aspect of the invention the two flat part halves each support a part or parts of an antenna, which parts of the antenna all connect to the RFID chip when the two flat part halves are joined together, and wherein in the pre-mounted form only one part of said antenna connects to the RFID chip. Only an authentic RFID label tag is provided with this feature wherein the full reach of the antenna becomes available when the two flat part halves are joined together, and this reach is tremendously reduced when the two flat part halves are separated. It is however still possible in the pre-mounted form of the RFID label tag when the two flat part halves are separated to communicate with the RFID chip, because then one part of the antenna is still connected to the RFID chip.

[0009] Wherein the two flat part halves are joined together, it is preferable that between said two flat part halves a foam is sandwiched to prevent water ingress. The foam is preferably a closed cell 0.8 mm foam which provides IP 68 water ingress protection. This ensures consistency of RF performance in outdoor conditions.

[0010] Further the label inlay preferably comprises both the antenna and the RFID chip, so that tampering with the label inlay will adversely affect the ability of the RFID label tag to operate.

[0011] Preferably said label inlay is provided with a herringbone die-cut structure. Tampering with this label inlay, particularly for instance an effort to remove the label inlay from the two flat part halves will destroy it due to the herringbone die-cut structure providing weak spots that will tear due to the glue connecting the label inlay to the two flat part halves and to itself.

[0012] Beneficially the label inlay comprises an aperture providing room for the plurality of anti-wear ribs. This construction ensures that cutting the loop will also cut the antenna so that the RFID label tag will be irreparably damaged.

[0013] Still another preferred feature is that the pre-mounted form is arranged to represent the preferred form of the RFID label tag, such that when the RFID label tag is not mounted, it automatically assumes this pre-mounted form. Conversely when the RFID label tag is moved into the mounted condition, the loop is under stress and trying to tamper with his loop will then cause it to break.

[0014] Advantageously the loop and the two flat part halves are substantially made from polycarbonate, in particular ABT material. This material is transparent and therefore reveals all the parts of the RFID tag label, including particularly the RFID chip. Because of that, merely copying the RFID label tag to get a copy of the label inlay will not be possible without noticing from the copy that it is indeed a copy due to the fact that the RFID antenna will blur the image and spoil the appearance of the copy.

[0015] In another aspect of the RFID label tag of the invention at least a first one of the flat part halves has a first protrusion that snugly fits in and extends through an aperture provided in the second one of the flat part halves when the two flat part halves are joined together. This feature makes tampering of the loop with for instance a screwdriver difficult without also damaging the loop of the RFID label tag.

[0016] It is preferred that adjacent to the first protrusion and at its side facing away from the loop a second protrusion is provided with a smaller size than the first protrusion, wherein the second protrusion is equipped with a hook part to snap behind an edge of the aperture. This second protrusion hinders tampering of the first protrusion from a side distant from the loop, whereas the hook part of the second protrusion also supports a reliable closure of the RFID label tag when the two flat part halves are joined together.

[0017] Securing the joining of the two part halves is further promoted by the feature that at least one of the two flat part halves is provided with multiple hook shaped clips that when the two flat part halves are joined together snap behind edges of the other one of the two flat part halves.

[0018] Further preferably the two flat part halves have extremities that are distant from the loop which are provided with cooperating closure facilities to secure the mounted form of the RFID label tag.

[0019] In a suitable embodiment the cooperating closure facilities comprise on the one part a peg and on the other part a receptacle for the peg, wherein the peg comprises a head supported by two pillars mounted on one of the two flat part halves, and wherein the receptacle is provided with a collar surrounding the receptacle on the other one of the two flat part halves to guide the head to be received in the receptacle, and wherein the head is dimensioned to fit

within the collar and the receptacle.

[0020] It is preferred that the pillars are mounted on supports provided on one of the two flat part halves, and in particular it is preferred that the pillars are dimensioned to break when a predetermined lateral force is applied to the head. This again is a feature that supports the possibility to visibly notice that efforts have been made to tamper with the RFID label tag of the invention.

[0021] Beneficially at its inside the collar is provided with inwardly converging edges that narrow the aperture such that the pillars fit between the edges when the head on the pillars is pushed into the collar and receptacle beyond the edges.

[0022] Other notable features are that an outer surface of the loop of the RFID label tag is provided with one or more ribs following at least in part the loops curvature. This has the dual purpose of making a cut through the loop difficult, and when nevertheless the loop has been cut to make reparation of the loop with a tape cumbersome or impossible, since the ribs will prevent that the tape fill nicely adhere to the loops outer circumference.

[0023] There are different options how the ribs can be oriented, but preferably the one or more ribs have a radius of curvature wherein a center point of the radius coincides with an imaginary axis around which the loop is curved.

[0024] It is particularly preferred that the RFID label tag comprises a plurality of parallel ribs following at least in part the loops curvature.

[0025] Another aspect of the RFID label tag of the invention is that an inner surface of the loop is provided with a plurality of anti-wear ribs. This supports that in practice the RFID label tag can without harm frequently be moved while it is mounted on a plant container without making the RFID label tag more sensitive to tampering.

[0026] The invention is also embodied in a plant container provided with an RFID label tag according to the invention.

[0027] The invention will hereinafter be further elucidated with reference to the drawing of an exemplary embodiment of a RFID label tag according to the invention that is not limiting as to the appended claims.

[0028] In the drawing:

- figure 1 and figure 2 shows a RFID label tag according to the invention in open and closed condition respectively;
- figures 3, 4 and 5 show in different views the outside surface of the loop of the RFID label tag according to the invention;
- figure 6 and figure 7 show different views at the inside surface of the loop of the RFID

label tag according to the invention;

- figure 8 and figure 9 show a detailed view of the loop of the RFID label tag of the invention in closed and open condition respectively;
- figure 10 and figure 11 show a flat part half and an assembled flat part respectively of the RFID label tag of the invention;
- figure 12 shows an inlay to be provided in and supported by the two flat part halves of the RFID label tag of the invention; and
- figures 13 - 17 shows the closure facilities of the two flat part halves distant from the loop of the RFID label tag of the invention.

[0029] Whenever in the figures the same reference numerals are applied, these numerals refer to the same parts.

[0030] Making first reference to figure 1 and figure 2, a RFID label tag 1 according to the invention is shown in open or pre-mounted condition (figure 1) and closed or mounted condition (figure 2) respectively, albeit without showing the plant container for which the RFID label tag 1 is intended. This RFID label tag 1 is intended for authentication of such plant container and comprises a loop 2 that is dimensioned to snugly fit around a part of the plant container. The RFID label tag 1 further comprises a flat part 3 connected to the loop 2, wherein the flat part 3 is provided with a RFID chip.

[0031] The pre-mounted form as shown in figure 1 is arranged to represent the preferred form or shape of the RFID label tag 1, such that when not mounted the RFID label tag 1 automatically assumes this pre-mounted form or shape.

[0032] Turning now to figures 3, 4 and 5 it is shown that an outer surface 2' of the loop 2 is provided with a series of ribs 4 following at least in part the curvature of the loop 2. It is further clear that the ribs 4 are essentially parallel to each other. The ribs 4 have a radius of curvature wherein a center point of the radius coincides with an imaginary axis around which the loop 2 is curved. This is clear for the skilled person when looking at figure 3.

[0033] Figure 6 and figure 7 show that an inner surface 2" of the loop 2 is provided with a plurality of anti-wear ribs 5.

[0034] Turning again to figure 1 and figure 2 it is shown that the RFID label tag 1 according to the invention comprises a pre-mounted form as shown in figure 1, wherein the loop 2 is open to receive a part of the plant container and wherein the flat part 3 is separated into two flat part halves 3', 3". Said flat part halves 3', 3" are connected to the loop 2 on opposite sides of the loop 2. Figure 2 shows the RFID label tag 1 of the invention in a mounted form wherein the loop 2 is closed and arranged to snugly fit around the part of a plant container (not shown), and wherein the two flat part halves 3', 3" are joined together. It is further remarked that the loop 2 and the two flat part halves 3', 3" are substantially made from polycarbonate, in

particular and preferably transparent ABT material.

[0035] Turning now first to figure 12, this figure 12 shows an inlay 6 to be provided in and supported by the two flat part halves 3', 3" of the RFID label tag 1 of the invention. The label inlay 6 is glued to the two flat part halves 3', 3" and a surface of the label inlay 6 facing away from the two flat part halves 3', 3" is provided with glue so as to arrange that when the two flat part halves 3', 3" are joined together as shown in figure 2, the surface of the label inlay 6 is glued to itself. Figure 12 shows the inlay 6 being straight which corresponds with the pre-mounted condition of the RFID label tag 1 as shown in figure 1. The label inlay 6 comprises the antenna parts 7', 7", 7''' and the RFID chip 8. The label inlay 6 is further provided with a herringbone die-cut 10 structure.

[0036] By providing the inlay 6 in the flat part halves 3', 3" and have it supported by said flat part halves 3', 3" of the RFID label tag 1, the two flat part halves 3', 3" support the parts 7', 7", 7''' of the antenna, which parts of the antenna both connect to the RFID chip 8 when the two flat part halves 3', 3" are joined together. In the pre-mounted form however, only one part 7''' of said antenna connects to the RFID chip 8.

[0037] Figure 2 shows that wherein the two flat part halves 3', 3" are joined together, between said two flat part halves 3', 3" a foam 9 is sandwiched to prevent water ingress. The foam 9 is preferably a closed cell 0.8 mm foam which provides IP 68 water ingress protection. This ensures consistency of RF performance in outdoor conditions.

[0038] Turning now again to figure 1 and in particular to the detailed figures 8 and 9 it is shown that at least a first flat part half 3' of the two flat part halves 3', 3" has a first protrusion 11 that, when the loop 2 is closed, snugly fits in and extends through an aperture 12 provided in the second flat part half 3" of the flat part halves, that is to say when the two flat part halves 3', 3" are joined together.

[0039] It is further shown that adjacent to the first protrusion 11 and at its side facing away from the loop 2 a second protrusion 13 is provided with a smaller size than the first protrusion 11, wherein the second protrusion 13 is equipped with a hook part 13' to snap behind an edge 12' of the aperture 12.

[0040] In figure 10 is shown that one flat part half 3 is provided with multiple hook shaped clips 14, wherein when the two flat part halves 3', 3" are joined together as shown in figure 11 the hook shaped clips 14 snap behind edges of the other flat part half 3" of the two flat part halves 3', 3". Figure 11 further shows that the two flat part halves 3', 3" have ridges 14' that protect the clips 14 against tampering.

[0041] As another aspect figure 1 shows that the two flat part halves 3', 3" have extremities 15', 15" that are distant from the loop 2, and that these extremities 15', 15" are provided with closure facilities 16, 17 that are shown in figure 2 to cooperate in order to secure the mounted form of the RFID label tag 1. A detailed view at these closure facilities 16, 17 is provided by

figures 13 - 17.

[0042] With reference to said figures 13 - 17 the cooperating closure facilities 16, 17 are shown to comprise on the one part a peg 18 and on the other part a receptacle 19 for the peg 18, wherein figure 13 and figure 14 show that the peg 18 comprises a head 20 supported by two pillars 21 mounted on one flat part half 3" of the two flat part halves 3', 3". The pillars 21 are mounted on supports 23 provided on one flat part half 3" of the two flat part halves 3', 3". Preferably the pillars 21 are dimensioned to break when a predetermined lateral force is applied to the head 20.

[0043] Figures 15, 16 and 17 show that the receptacle 19 for the head 20 is provided with a collar 22 surrounding the receptacle 19 on the other flat part half 3' of the two flat part halves 3', 3" to guide the head 20 when it is to be received in the receptacle 19. Of course the head 20 is dimensioned to fit within the collar 22. Figure 16 shows the receptacle 19 before the head 20 is introduced in this receptacle 19, whereas figure 17 shows the receptacle 19 after it has received the head 20.

[0044] Figure 16 clearly shows that at its inside the collar 22 is provided with inwardly converging edges 24 that narrow the aperture 19 such that the pillars 21 will fit between the edges 24 when - as figure 17 shows - the head 20 on the pillars 21 is pushed into the collar 22 and the receptacle 19 beyond the edges 24.

[0045] Although the invention has been discussed in the foregoing with reference to an exemplary embodiment of the RFID label tag of the invention, the invention is not restricted to this particular embodiment which can be varied in many ways without departing from the invention. The discussed exemplary embodiment shall therefore not be used to construe the appended claims strictly in accordance therewith. On the contrary the embodiment is merely intended to explain the wording of the appended claims without intent to limit the claims to this exemplary embodiment. The scope of protection of the invention shall therefore be construed in accordance with the appended claims only, wherein a possible ambiguity in the wording of the claims shall be resolved using this exemplary embodiment.

REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

- US20110023343A [0004] [0004]

Patentkrav

1. RFID-etiket (1) til autentificering af en plantebeholder omfattende en løkke (2), som er dimensioneret til at passe præcist omkring en del af plantebeholderen, hvor
- 5 nævnte RFID-etiket (1) yderligere omfatter en flad del (3) forbundet til løkken (2), hvor den flade del (3) er udstyret med en RFID-chip (8), hvor RFID-etiketten (1) omfatter en formonteret form, hvor løkken (2) er åben til modtagelse af en del af plantebeholderen, og hvor den flade del (3) er opdelt i to flade delhalvdele (3', 3''), hvor nævnte flade delhalvdele (3', 3'') hænger sammen med løkken (2) på hver sin side deraf, og en
- 10 monteret form, hvor løkken (2) er lukket og indrettet således, at den præcis passer omkring delen af plantebeholderen, når de to flade delhalvdele (3', 3'') er føjet sammen, hvor de to flade delhalvdele (3', 3'') er udstyret med et etiketindlæg (6) understøttet af de to flade delhalvdele (3', 3''), hvor etiketindlægget (6) er limet til de to flade delhalvdele (3', 3''), **kendetegnet ved, at** en overflade af etiketindlægget (6), som vender bort fra de
- 15 to flade delhalvdele (3', 3''), på hvilke etiketindlægget (6) er limet, også er udstyret med lim til sikring af, at når de to flade delhalvdele (3', 3'') er føjet sammen, vil overfladen af etiketindlægget (6) vendende bort fra de to flade delhalvdele (3', 3'') være limet til sig selv.
- 20 2. RFID-etiket i overensstemmelse med krav 1, **kendetegnet ved, at** de to flade delhalvdele (3', 3'') hver bærer en del eller dele af en antenne (7', 7'', 7'''), hvilke dele af antennen alle er forbundet med RFID-chip'en (8), når de to flade delhalvdele (3', 3'') er føjet sammen, og hvor i den formonterede form kun én del (7''') af nævnte antenne (7', 7'', 7''') har forbindelse med RFID-chip'en (8).
- 25 3. RFID-etiket i overensstemmelse med krav 1 eller 2, **kendetegnet ved, at** hvor de to flade delhalvdele (3', 3'') er føjet sammen, er der mellem nævnte to flade delhalvdele (3', 3'') indeklemmt et skumlag (9) til at forhindre vandindtrængen.

4. RFID-etiket i overensstemmelse med et hvilket som helst af kravene 1 - 3,
kendetegnet ved, at etiketindlægget (6) omfatter antennen (7', 7'', 7''') og RFID-chip'en (8).
- 5 5. RFID-etiket i overensstemmelse med et hvilket som helst af kravene 1 - 4,
kendetegnet ved, at etiketindlægget (6) er udstyret med en sildebensmønstret udstanset (10) struktur.
6. RFID-etiket i overensstemmelse med et hvilket som helst af kravene 1 - 5,
10 **kendetegnet ved, at** en indre overflade (2'') af løkken (2) er udstyret med adskillige slidbeskyttelsesribber (5), og at etiketindlægget (6) omfatter en åbning (6'), der giver plads til de adskillige slidbeskyttelsesribber (5).
7. RFID-etiket i overensstemmelse med et hvilket som helst af kravene 1 - 6,
15 **kendetegnet ved, at** den formonterede form er således indrettet, at den fremviser den foretrukne form af RFID-etiketten (1), hvorunder RFID-etiketten (1) ikke-monteret stand automatisk antager den formonterede form.
8. RFID-etiket i overensstemmelse med et hvilket som helst af kravene 1 - 7,
20 **kendetegnet ved, at** løkken (2) og de to flade delhalvdele (3', 3'') i det væsentlige er fremstillet af polycarbonat, i særdeleshed ABT-materiale.
9. RFID-etiket i overensstemmelse med et hvilket som helst af kravene 1 - 8,
kendetegnet ved, at mindst en første flad delhalvdel (3') af de flade delhalvdele (3', 3'')
25 har et første fremspring (11), som nøjagtigt passer i og strækker sig igennem en åbning (12) til rådighed i en anden flad delhalvdel (3'') af de flade delhalvdele (3', 3''), når de to flade delhalvdele føjes sammen.

10. RFID-etiket i overensstemmelse med krav 9, **kendetegnet ved, at** der ved siden af det første fremspring (11) og på dets side modsat løkken (2) findes et andet fremspring (13) med en mindre størrelse end det første fremspring (11), hvor det andet fremspring (13) er udstyret med en krogdel (13') til at klikke bag en kant (12') af åbningen (12).

11. RFID-etiket i overensstemmelse med et hvilket som helst af kravene 1 - 10, **kendetegnet ved, at** mindst én flad delhalvdel (3') af de to flade delhalvdele (3', 3") er udstyret med flere krogformede clips (14), som, når de to flade delhalvdele (3', 3") sættes sammen, klikker bag kanter af den anden flade delhalvdel (3") af de to flade delhalvdele (3', 3").

12. RFID-etiket i overensstemmelse med et hvilket som helst af kravene 1 - 11, **kendetegnet ved, at** de to flade delhalvdele (3', 3") har ender (15', 15") på afstand fra løkken (2), som er udstyret med samvirkende låseanordninger (16, 17) til sikring af den monterede form af RFID-etiketten (1).

13. RFID-etiket i overensstemmelse med krav 12, **kendetegnet ved, at** de samvirkende låseanordninger (16, 17) omfatter på den ene del en tap (18) og på den anden del et leje (19) til tappen (18), hvor tappen (18) omfatter et hoved (20) understøttet af to søjler (21) monteret på én flad delhalvdel (3") af de to flade delhalvdele (3', 3"), og hvor lejet (19) er udstyret med en krave (22) omgivende lejet (19) på den anden flade delhalvdel (3') af de to flade delhalvdele (3', 3") til at styre hovedet (20) til at blive optaget i lejet (19), og hvor hovedet (20) er dimensioneret til at passe inden i kraven (22) og lejet (19) .

14. RFID-etiket i overensstemmelse med krav 13, **kendetegnet ved, at** søjlerne (21) er monteret på støtter (23) anbragt på én flad delhalvdel (3") af de to flade delhalvdele (3', 3").

15. RFID-etiket i overensstemmelse med krav 13 eller 14, **kendetegnet ved, at** søjlerne (21) er dimensioneret til at knække, når en forudbestemt sidekraft påføres hovedet (20).

DRAWINGS

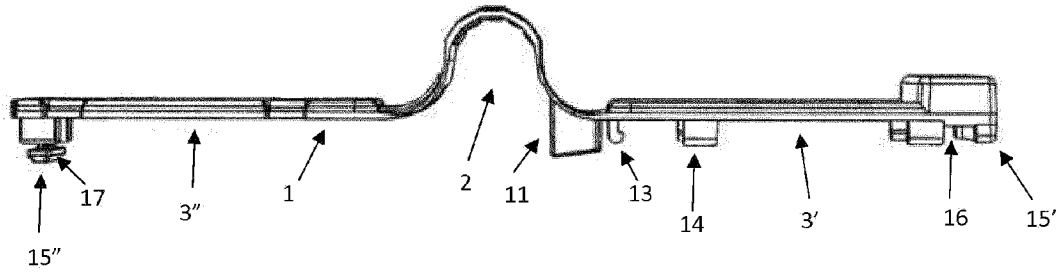


Fig. 1

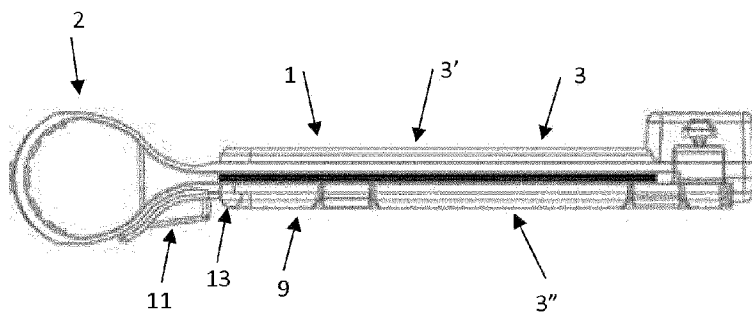


Fig. 2

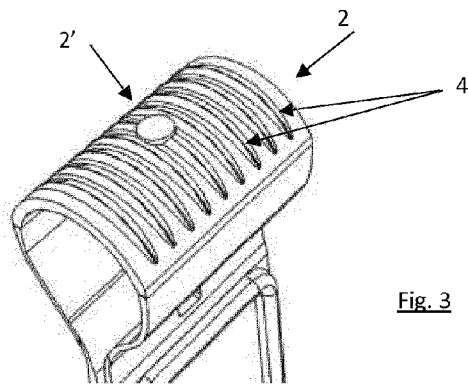


Fig. 3

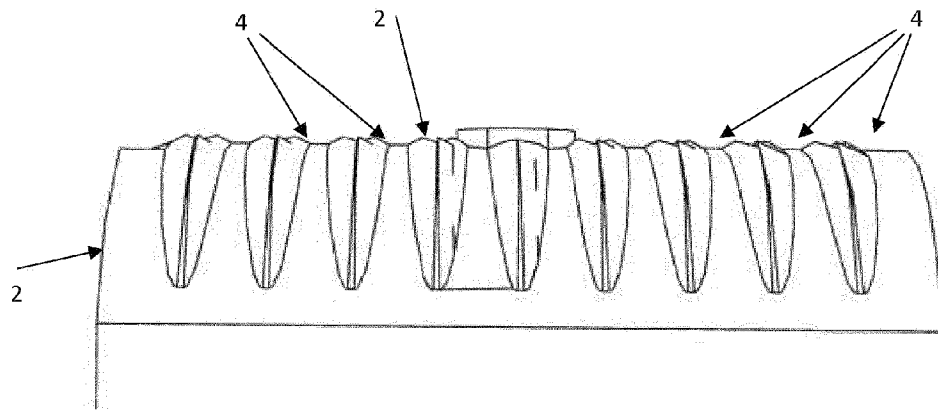


Fig. 4

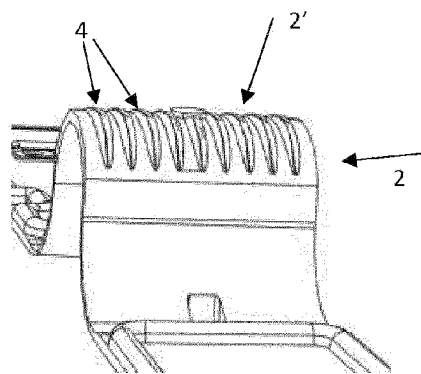


Fig. 5

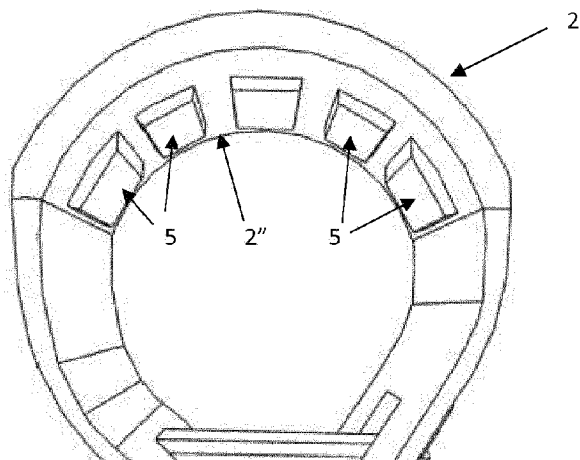


Fig. 6

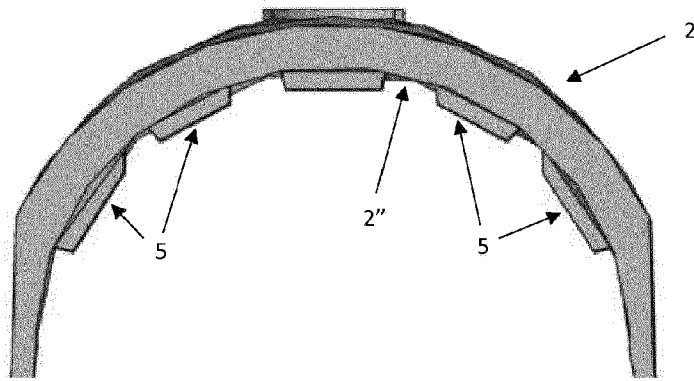


Fig. 7

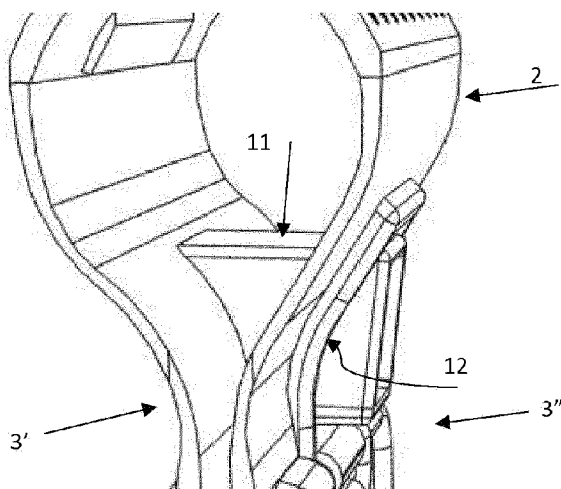
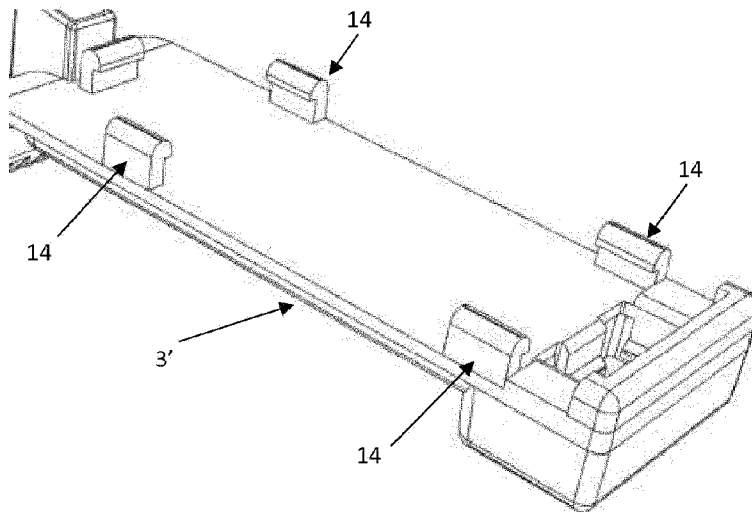
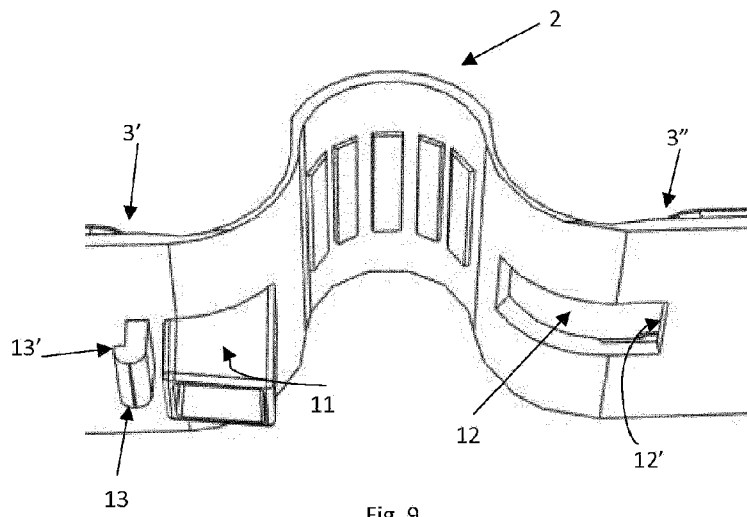
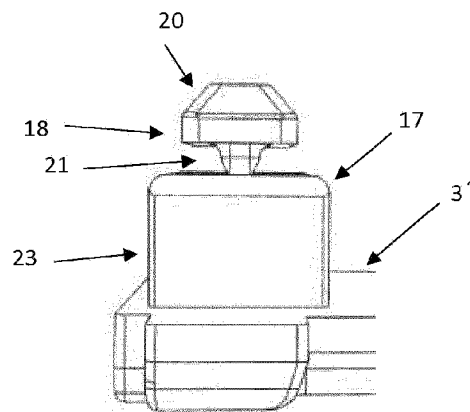
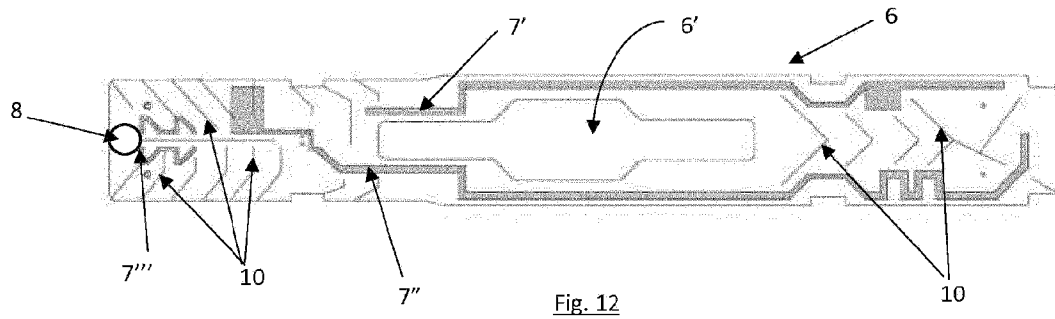
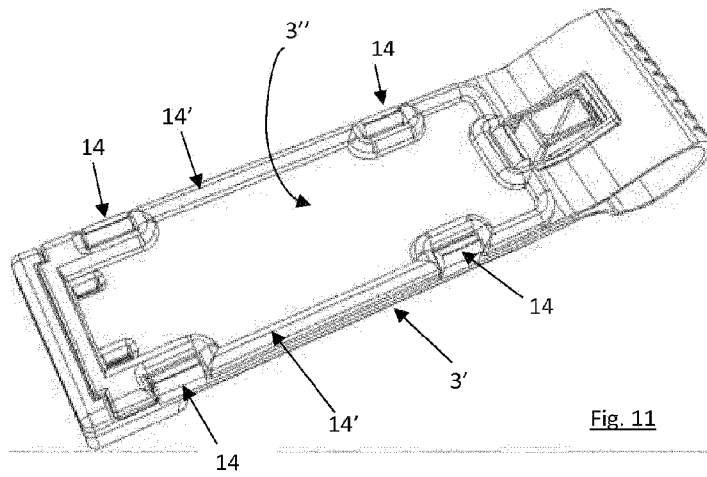
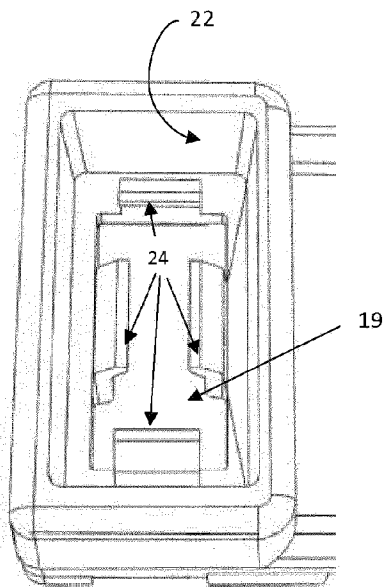
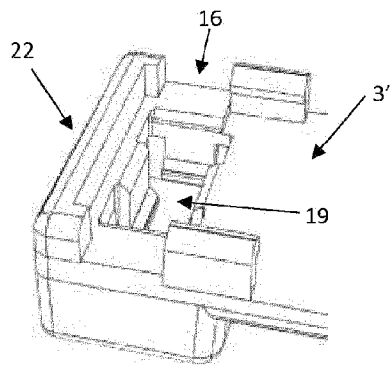
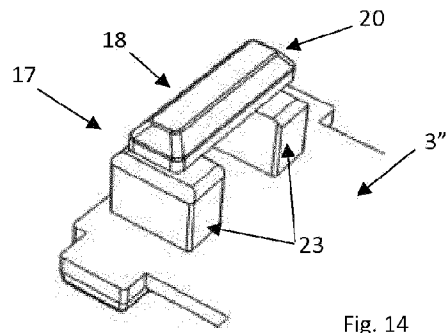


Fig. 8







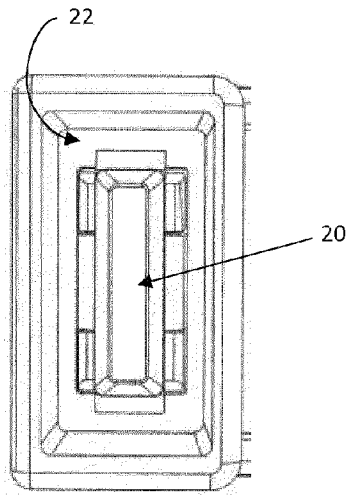


Fig. 17