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Remarks:
Amended claims in accordance with Rule 137(2) EPC.

(54) **PROTECTION COVER FOR TELECOM ANTENNA SYSTEMS**

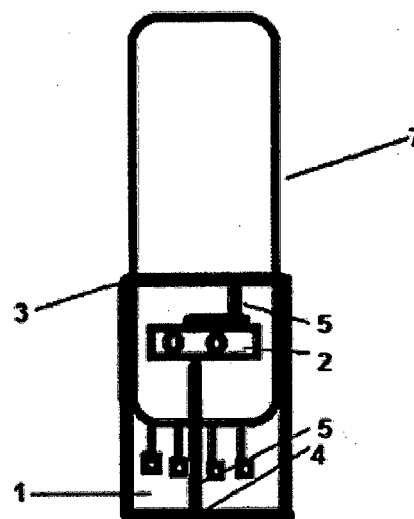
(57) Fabricated with PVC weight 650gr / m², Base fabric: 100% polyester with reinforced weave, Coating: PVC lamination, Finish: lacquer, thickness: 0,55mm, Tensile strength: 280kg / 5cm (DIN 53354), Resistance to tearing: 58kg (DIN 53363), Temperature resistance: -30c to + 70c., Dimensions 50.5 ch103,5, Tightening Link (498mm), Insulation elastic Tire Type D 20mmx15mm Fig.1

Mechanically fastened on the base 2 of the telecom antenna 7 at three points. At the top is secured with a double Velcro scratch type and reinforced plastic tie link which clamping and sealing 3, internally with an elastic sealing profile 6 and at the bottom with navy type rope 0,6mm 4. Along the combination of the two surfaces stabilized with double Velcro scratch type 5.

The PROTECTION COVER FOR TELECOM ANTENNA SYSTEMS 1 is designed and is a means of protection to antenna systems in telecommunication, applied to GSM, UMTS, DCS, LTE, GSMR and TETRA technologies, creating conditions to protect the electrical cable connections of the antenna.

The protective cover is applied and covers the base 2 of the antenna 7 by creating the conditions to protect the electrical connections of the antenna and the accessory mechanisms and is a means of protection for Telecom antenna systems in mobile telecommunications at the points of electrical interconnections.

Fig. 2



Description

[0001] The protection cover for telecom antennas 1 is designed and is a means of protection to antenna systems in telecommunication, applied for GSM, UMTS, DCS, LTE, GSMR and TETRA technologies, creating conditions to protect the electrical cable connections of the antenna

[0002] The protection cover is mechanically fastened on the base 2 of the telecom antenna 7 in three points. At the top is secured with a double Velcro scratch type and reinforced plastic tie link which clamping and sealing 3, internally with an elastic sealing type D profile 6 and at the bottom with navy type rope 0,6mm 4. Along the combination of the two surfaces stabilized with double Velcro scratch type 5.

[0003] The protective cover is applied and covers the base 2 of the antenna 7 by creating the conditions to protect the electrical connections of the antenna and the accessory mechanisms (electric Tilt, Connectors) from rain, ice, wind, saltiness, dust, moisture and polymerization, designed and is a means of protection for Telecom antenna systems in mobile telecommunications at the points of electrical interconnections.

[0004] The up to now techniques of protection of telecom antenna systems in the points of electric interconnections become with plastic and elastic tapes, or plastic covers on connecting points with the electrical RF cables.

[0005] The above technics regarding the usage of plastic and elastic tapes for shield on the electrical connections on the telecom antenna do not provide the suitable shield from rain, ice, dust, humidity, the characteristics of insulation of materials changing with the byway of time, polymerization and deterioration arising from the sun, air, dust or salt, more especially at areas of islands.

[0006] In addition the human factor that differentiates the quality of insulations. The insulation becomes per connector at telecom antenna.

[0007] In the plastic covers for connectors the characteristics of insulation of materials change with the byway of time, polymerization appears from the sun and deterioration from air, especially in areas of island conditions plastic shield covers for connectors fracturing. Moreover extra cost of material supply and additional per connector installation time that needed shall be accounted.

[0008] All the above techniques leave exposed in ice, rain, air, dust, sun of all remainder of telecom antenna as the mechanism of Remote Electrical Tilt, bars of electrical Tilt due lack of installation of mechanism, unused electric receptions antenna ports - connectors of the telecom antenna

[0009] The PROTECTION COVER FOR TELECOM ANTENNA SYSTEMS 1 is designed and is a means of protection to antenna systems in telecommunication, applied to GSM, UMTS, DCS, LTE, GSMR and TETRA technologies, creating conditions to protect the electrical cable connections of the antenna and installed on the base 2 of the telecom antennas.

[0010] The PROTECTION COVER FOR TELECOM ANTENNA SYSTEMS is designed to create the conditions to protect the electrical connections of the antenna and the accessory mechanisms (electric Tilt, Connectors) from rain, ice, wind, saltiness, dust, moisture and polymerization, designed and is a means of protection for Telecom antenna systems in mobile telecommunications at the points of electrical interconnections.

[0011] The PROTECTION COVER FOR TELECOM ANTENNA SYSTEMS 1

Fabricate Specifications is PVC weight 650gr / m², Base fabric: 100% polyester with reinforced weave, Coating: PVC lamination, Finish: lacquer, thickness: 0,55mm, Tensile strength: 280kg / 5cm (DIN 53354), Resistance to tearing: 58kg (DIN 53363), Temperature resistance: -30c to + 70c., Dimensions 50.5 ch103,5, Tightening Link (498mm), Insulation elastic Tire Type D 20mmx15mm Fig.1

[0012] The protection shield cover for antenna system is designed to create the conditions to protect the electrical connections of the antenna as described above. Mechanically fastened on the base 2 of the telecom antenna 7 at three points. At the top is secured with a double Velcro scratch type and reinforced plastic tie link which clamping and sealing 3, internally with an elastic sealing profile 6 and at the bottom with navy type rope 0,6mm 4. Along the combination of the two surfaces stabilized with double Velcro scratch type 5.

[0013] The described mounting method allows access for inspection and maintenance at the points of the electrical connections of the antenna 7

Claims

1. The PROTECTION COVER FOR TELECOM ANTENNA SYSTEMS 1 is designed and is a means of protection to antenna systems in telecommunication, applied to GSM, UMTS, DCS, LTE, GSMR and TETRA technologies, creating conditions to protect the electrical cable connections of the antenna. Fabricate Specifications is PVC weight 650gr / m², Base fabric: 100% polyester with reinforced weave, Coating: PVC lamination, Finish: lacquer, thickness: 0,55mm, Tensile strength: 280kg / 5cm (DIN 53354), Resistance to tearing: 58kg (DIN 53363), Temperature resistance: -30c to + 70c., Dimensions 50.5 ch103,5, Tightening Link (498mm), Insulation elastic Tire Type D 20mmx15mm Fig.1
2. The PROTECTION COVER FOR TELECOM ANTENNA SYSTEMS 1 according to claim 1 fabricated by PVC weight 650gr / m², Base fabric: 100% polyester with reinforced weave. Mechanically fastened on the base 2 of the telecom antenna 7 at three points. At the top is secured with a double Velcro scratch type and reinforced plastic tie link which clamping and sealing 3, internally with an elastic

sealing profile 6 and at the bottom with navy type rope 0,6mm 4. Along the combination of the two surfaces stabilized with double Velcro scratch type 5.

3. The PROTECTION COVER FOR TELECOM ANTENNA SYSTEMS 1 according to claim 1 or 2 Fabricated with PVC weight 650gr / m², Base fabric: 100% polyester with reinforced weave, Coating: PVC lamination, Finish: lacquer, thickness: 0,55mm, Tensile strength: 280kg / 5cm (DIN 53354), Resistance to tearing: 58kg (DIN 53363), Temperature resistance: -30c to + 70c., Dimensions 50.5 ch103,5, Tightening Link (498mm), Insulation elastic Tire Type D 20mmx15mm Fig.1 5
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4. The PROTECTION COVER FOR TELECOM ANTENNA SYSTEMS 1 according to claim 1 On the top secured with a double Velcro scratch type and reinforced plastic cable ties which clamping and sealing 3. 20
5. The PROTECTION COVER FOR TELECOM ANTENNA SYSTEMS 1 according to claim 1 internally fabricated with an elastic sealing profile 6 and at the bottom with navy type rope 0,6mm 4 25
6. The PROTECTION COVER FOR TELECOM ANTENNA SYSTEMS 1 according to claim 1 or 2 Along the combination of the two surfaces stabilized with double Velcro scratch type 5. 30

Amended claims in accordance with Rule 137(2) EPC.

1. Protection cover for telecom antenna systems, comprising a polyvinyl chloride fabric with reinforced weave, a double scratch (5), a reinforced clamping and sealing plastic tie link (3), an internal elastic sealing profile (6) and a navy type rope (4) on the bottom, **characterized by** the fact that the protection cover (1) is applied around base (2) of a telecom antenna (7) and is fastened by tightening of the navy type rope (4), by the coupling of each scratch (5) with the other and with the clamping and sealing plastic tie link (3). 35
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Fig. 1

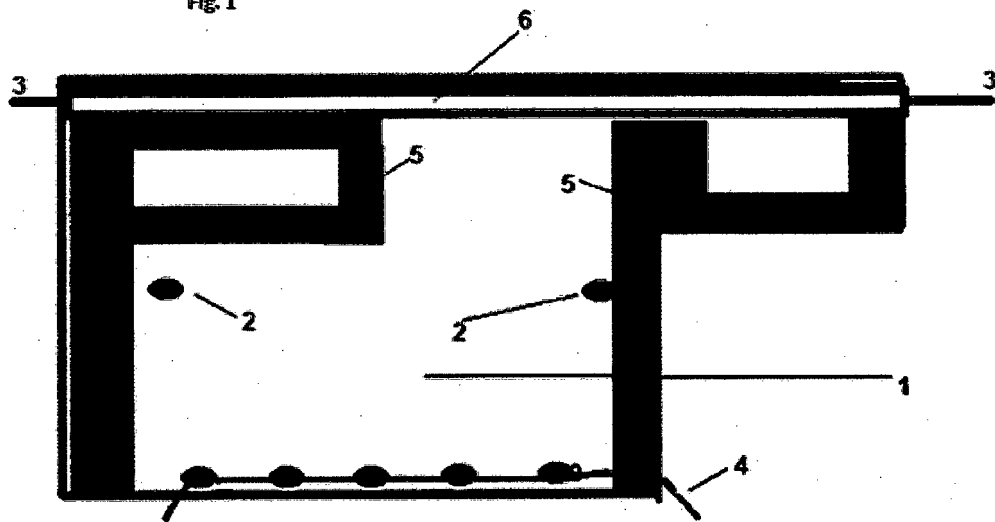
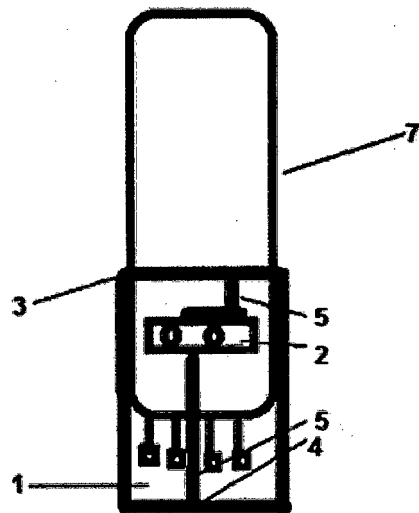


Fig. 2





EUROPEAN SEARCH REPORT

Application Number
EP 15 38 6031

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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A	GB 2 064 875 A (GUSTAFSSON L) 17 June 1981 (1981-06-17) * abstract; figure 1 * * page 2, lines 36-94 *	1-6	
			TECHNICAL FIELDS SEARCHED (IPC)
			H01Q
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 12 May 2016	Examiner Cordeiro, J
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 03/02 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 15 38 6031

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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12-05-2016

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