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(54) Method for tensioning dismountable fencing

(57) It incorporates, anchored with expansion studs or with stakes (2) a lower base (1) in the form of a centrally drilled spherical shell; a threaded rod (3), passing through this drilled hole, a foot (4), formed by a section of the shell (4.1) and which slides with respect to the

base (1), followed by a short tubular section (4.2); an upper cap (5) with an axially drilled hole (5.1), a post (6) with an upper cover (7) and - two parallel rods (10) near to the edges of the mortise (6.1); a tensioning element (11).

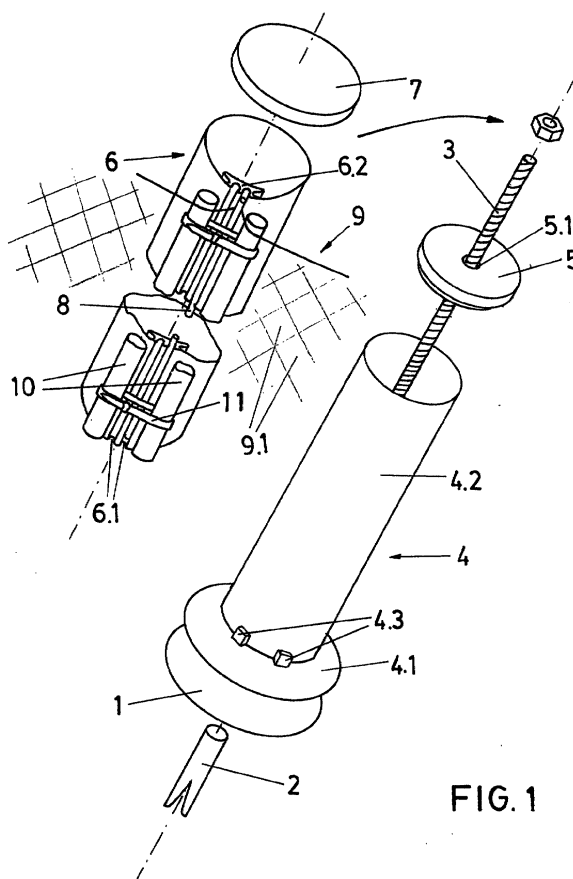


FIG. 1

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Description

OBJECT OF THE INVENTION

[0001] The invention herein proposed consists of means for tensioning dismountable fencing, from among the different means of tensioning meshes, either of plastic or metal.

[0002] This invention is characterised by a special articulated construction with two feet on which the posts will be mounted, with the aim of regulating their inclination, as well as being characterised by the tangential fastening of the mesh to the post, which is tensioned by rotation thereof, as well as a later re-tensioning, by means of some small adjoining parallel sections joined by a tensioning element.

BACKGROUND OF THE INVENTION

[0003] The continuous enclosure fences have the main drawback that the terrain over which they pass to form the enclosure is often irregular. The means habitually used for tensioning of these enclosures, those of the mesh type made from plastic, have the drawback of adapting to the irregular arrangement of the posts and the irremediable hoisting of certain areas of intermediate zone between posts.

[0004] The applicant is unaware of the existence of means for enclosure, based on feet of a head with a spherical section and tensioning by means of rotating the post as well as subsequent peripheral re-tensioning, with the simple construction and ease of assembly and disassembly of the means that is herein proposed.

DESCRIPTION OF THE INVENTION

[0005] The invention object of the present specification relates to some means for tensioning dismountable fences, from among those different means of tensioning continuous fences, preferably made from simple or composite plastic materials, although other realisations in metal or graphite fibre are not discarded.

[0006] This invention is characterised by a special articulated construction of feet anchored to the ground by means of a conventional system, either with expansion studs or by means of a stake that, after dismantling of the enclosure, can be covered with a conventional cap so that it can be reused in the future.

[0007] These feet, over which the posts will be mounted with the aim of regulating the inclination thereof, have a lower base that has a central hole drilled in them to allow a threaded shaft to pass and which has the form of a spherical cap, with respect to which another one can slide concentrically to the inner section of the foot itself, which connects with a short tubular piece, equipped with an upper drilled cap and which has, over the edge of joining between both sections, a spherical and tubular cap, of two projections, near to each other

and next to the generating function of the tubular section.

[0008] These projections are arranged antagonistic to a peripheral mortise of the extruded tube that forms the post, with an upper cover and with a slightly oval-shaped section and with an inner projection in the form of a half moon that serves, alternatively, as a stop and as a fastening point between the bar and foot projections.

[0009] The fastening tangential to the post is also characterised by a passer or a small upper rod that is inserted into one of the semi-mortises of the bar, before locating the cover of the post and introducing them until they come up against the ends of the projections of the foot, in upper vertical continuity thereof, by which means it is fastened to the mesh.

[0010] The operation should be carried out with each post facing the previous one, such that the tensioning takes place by rotation by 90° thereof, trying to line-up the respective mortises.

[0011] Similarly, it has some means for subsequent re-tensioning, by means of two small sections, in rods of circular section and placed parallel and next to the edges of the mortise, which are joined between themselves and, in turn, have elements that pass through suitable gaps in the mesh, by means of a tensioning element, constructed as a strip with one of its two ends passing through the other, such that the intermediate enclaves between posts disappear.

DESCRIPTION OF THE DRAWINGS

[0012] To complement the description that is being carried out here and with the aim of facilitating a better and easier understanding of the characteristics of the invention, the present specification is accompanied as an integral part thereof, by a set of drawings in which, for illustrative purposes only and never limiting, the following has been represented:

[0013] Figure 1 is an expanded view of the different elements that make up the invention, some of them being shown as sections.

[0014] Figure 2 shows the way of constructing the enclosure, with a fixed post and the consecutive facing off and preparation for rotation and initial tensioning.

[0015] Figure 3 is a section of the post, showing the final re-tensioning means, once this post has been aligned with the previous one.

PREFERRED EMBODIMENT OF THE INVENTION

[0016] In view of that discussed above, the present invention relates to some means for tensioning dismountable fencing, from among the different means for tensioning continuous fencing, preferable of plastic, essentially characterised because the feet, anchored with expansion studs or stakes (2) have a lower base (1) in the form of a centrally drilled spherical shell, through which a threaded rod (3) passes, with respect to which

the antagonistic shell (4.1) of the foot itself (4) slides, followed by a short tubular section (4.2) and an upper cap (5) with an axial hole (5.1) drilled in it, with two paired projections (4.3) placed between the shell (4.1) and the tubular section (4.2), antagonistic to the two mortises (6.1) beside the post (6), which has an internal projection (6.2) in the circular sector and an upper cover (7), with an intermediate projection (6.3) arising from between the mortises (6.1), for mutual fastening between the post (6) and the foot (4).

[0017] A passing piece (8) is inserted into one of the semi-mortises of the post (6) until it reaches the level of the paired projections (4.3) that fasten the mesh (9) to the post (6), one of which acts as the lower stop of the projection (6.2) when inserting the post (6) with a rotation of less than 60° with respect to its final position, the tensioning taking place after rotation of the post (6) through this number of degrees, with the consequent suppression of the stop against the projection (4.3) and finishing when this reaches its lower position, on the edge formed between the shell (4.1) and the short tubular section (4.2) of the foot (4).

[0018] The re-tensioning is made possible by the two rods (10) parallel and next to the ends of the mortise (6.1), in conjunction with a tensioning element (11), with a band with one of its ends arranged passing through the other and passing through the rods (10), post (6) and gaps (9.1) in the mesh (9).

[0019] The essence of the invention is not affected by variations in materials, form, size and arrangement of the component elements, described in non-limiting fashion, and sufficient for an expert to reproduce the invention.

Claims

1. A means of tensioning dismountable fencing, from among the different means of tensioning continuous meshes, preferably made from plastic, essentially **characterised in that** it incorporates, anchored with expansion studs or with stakes (2):

- a lower base (1) in the form of a centrally drilled spherical shell,
- a threaded rod (3), passing through the hole,
- a foot (4), formed by a section of shell (4.1) and which slides with respect to the base (1), followed by a short tubular section (4.2),
- an upper cap (5) with an axially drilled hole (5.1),
- a post (6) with an upper cover (7) and
- two rods (10) parallel to and next to the edges of the mortises (6.1), and
- a tensioning element (11).

2. A means of tensioning dismountable fencing, according to the previous claim, **characterised in**

that it has two paired projections (4.3) between the shell (4.1) and the tubular section (4.2), antagonists to the two mortises (6.1) next to the post (6), that has an internal projection (6.2) in circular sector, with an intermediate projection (6.3) arising between the mortises (6.1), of mutual fastening between the post (6) and the foot (4).

3. A means of tensioning dismountable fencing, according to the previous claims, **characterised in that** it incorporates a passing piece (8), which is inserted into one of the semi-mortises of the post (6) until it reaches the level of the projections (4.3) that fasten the mesh (9) near to the post (6), such that one of these projections (4.3) forms a lower stop for the projection (6.2) in the insertion of the post (6) with a degree of rotation of less than 60° with respect to its final position, while the position of tensioning is that corresponding to the rotation through this same number of degrees of the post (6), with the subsequent suppression of the stop against the projection (4.3), such that this is located in its lower position, at the edge between the shell (4.1) and the short tubular section (4.2) of the foot (4).

4. A means of tensioning the dismountable fencing, according to the previous claims, **characterised in that** the re-tensioning is made possible by two parallel rods (10) near to the edge of the mortise (6.1), in conjunction with the tensioning element (11), constructed in a band with one of its two ends passing through the other and passing, in addition, through the rods (10), post (6) and gaps (9.1) in the mesh (9).

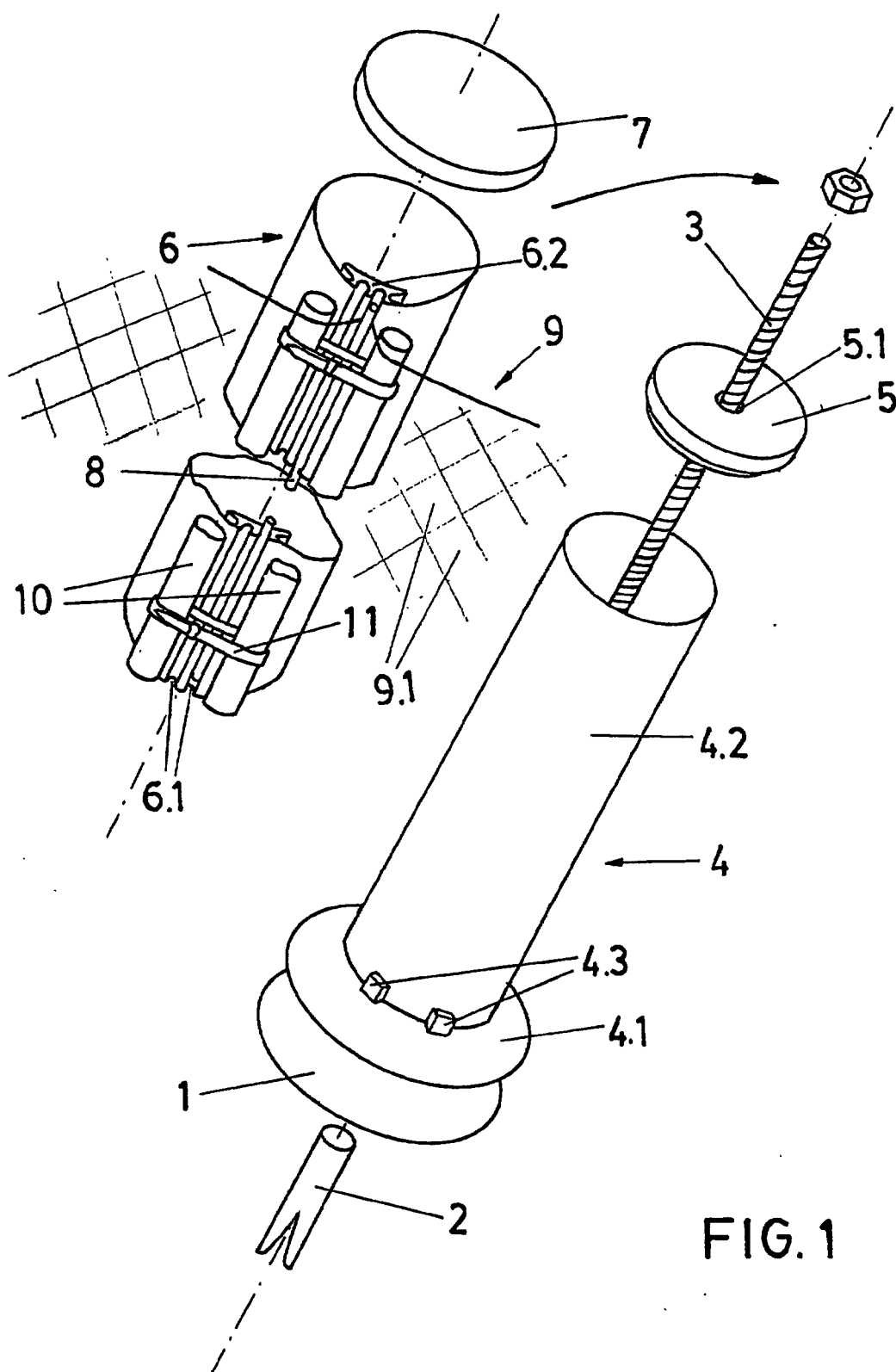


FIG. 1

FIG. 2

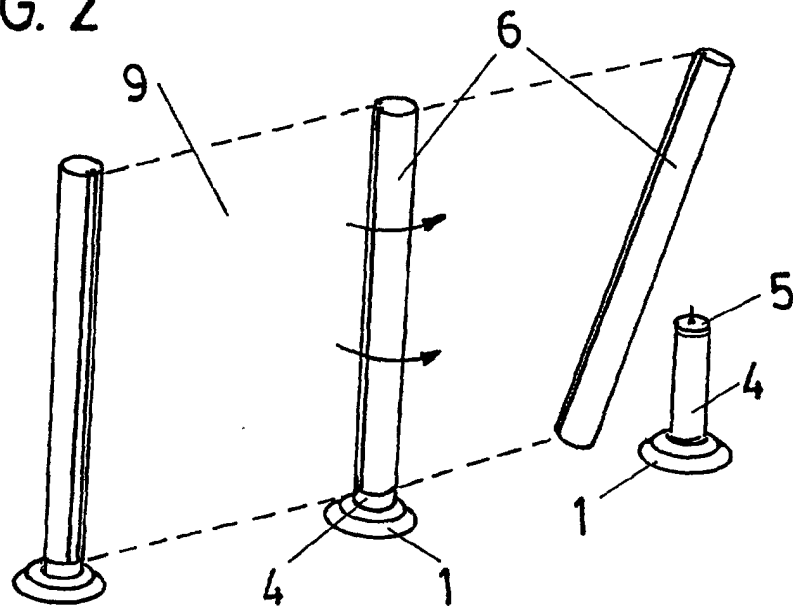
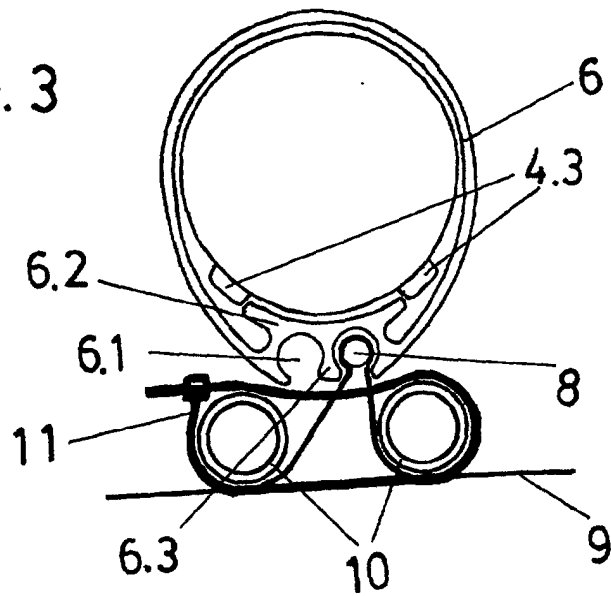


FIG. 3





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EUROPEAN SEARCH REPORT

Application Number
EP 00 50 0164

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A	US 3 508 741 A (STEENHOUDT JAN) 28 April 1970 (1970-04-28) * column 2, line 48 - column 3, line 24; figures * ---	1,3	
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A	US 1 338 423 A (BENJAMIN CLARKE GEORGE) 27 April 1920 (1920-04-27) * the whole document * -----	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			E04H E01F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 20 December 2000	Examiner Kriekoukis, S
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			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 00 50 0164

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20-12-2000

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