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(54) Post with fixing bracket

(57) This invention relates to a post (1) with a fixing bracket (3) for securing at least one welded mesh panel (2) to the post (1), in which the fixing bracket (3) consists of a U-shaped fixing plate of which at least one leg (4) is

provided with a number of recesses for taking up the welded mesh panel. By using a special fixing bracket, a very strong fixation of the welded mesh panel to the post is obtained.

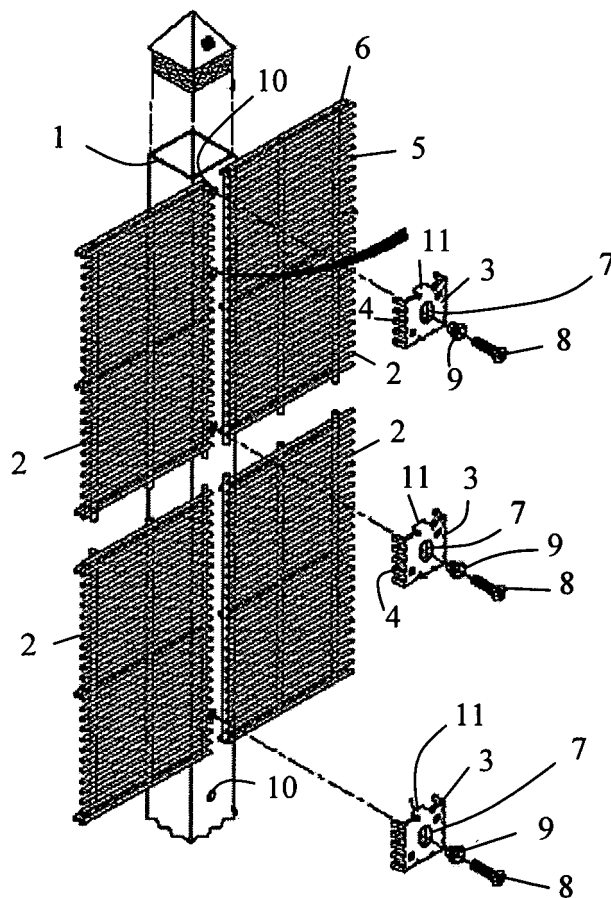


Fig. 1

Description

[0001] The invention relates to a post with fixing bracket for securing at least one welded mesh panel to the post.

[0002] Such a post with fixing bracket for securing mesh fencing panels is known from the British Patent application no. 2.250.757 A.

[0003] A first object of the invention is to obtain a very strong fixation of the welded mesh panel to the post by using a special fixing bracket.

[0004] To this end, the fixing bracket according to the invention is characterised in that it consists of a U-shaped fixing plate, of which at least one leg is provided with a number of recesses for taking up the welded mesh panel.

[0005] Preferably, the fixing bracket is characterised in that both legs of the U-shaped fixing plate are provided with a number of recesses for taking up two adjacent welded mesh panels.

[0006] A preferred embodiment of the invention is characterised in that the recesses are equidistant recesses and that each welded mesh panel consists of horizontal and vertical wires, whereby the center-to-center distance of the horizontal wires is equal to or a multiple of the center-to-center distance between the recesses of the fixing bracket.

[0007] Preferably, the fixing bracket is provided with a longitudinal aperture and with two supports at two opposite sides thereof.

[0008] Thanks to all the above-mentioned characteristics, a fixing bracket is obtained, which results in a very strong fixation of a welded mesh panel to a post. This is in particular the case, when the welded mesh panel consists of horizontal and vertical wires, whereby the distance between each set of two adjacent horizontal wires is very small.

[0009] Another advantage of the invention is that this strong fixation of the welded mesh panel can be obtained in different positions of the panel with respect to the post, whereby the fixing bracket permits a vertical and horizontal adjustment of the position of the panel with respect to the post.

[0010] The invention will now be described in greater detail with reference to the accompanying drawing, in which :

Figure 1 shows a perspective view of a post with four welded mesh panels and three fixing brackets,

Figure 2 shows another perspective view of a post with four welded mesh panels and five fixing brackets,

Figure 3 shows a plan view of the assembled post and welded mesh panels of figure 1,

Figure 4 shows a plan view similar to figure 3, but from a 90° corner post of the fencing,

Figure 5 shows another plan view similar to figure 3, but now for an obtuse angle of the fencing,

Figure 6 shows first side view of the fixing bracket ac-

cording to the invention,

Figure 7 shows a first side view of the fixing bracket of figure 6, and

Figure 8 shows a second side view of this fixing bracket.

[0011] Figure 1 shows a post, four welded mesh panels 2 and three fixing brackets 3. Each fixing bracket 3 consists of a U-shaped fixing plate, whereby the legs 4 of the U-shaped plate or bracket 3 are provided with four recesses or spaces for taking up the corresponding welded mesh panels 2. The fixing bracket 3 is e.g. manufactured from 3 mm. thick mild steel plate and has the following sizes : 58 x 55,8 x 15 mm. The bracket 3 is coated with adapted coatings for avoiding corrosion.

[0012] Each welded mesh panel 2 consists of horizontal wires 5 and vertical wires 6. The steel wires 5, 6 have e.g. diameter ranging between 2 to 5 mm. An important feature of the used welded mesh panels 2 is that the center-to-center distance between the horizontal wires 5 can be very small, e.g. ½ inch or 12,7 mm. The dimensions of the meshes of the panels are e.g. ½ inch x 3 inches or 12,7 x 76,2 mm.

[0013] An important characteristic of the fixing bracket 3 according to the invention is that the recesses or spaces for taking up the welded mesh panels 2 are equidistant recesses. The distance between each set of two adjacent recesses is e.g. also 12, 7 mm or equal to the distance between each set of two adjacent horizontal wires 5 of the used welded mesh panels 2.

[0014] As can be seen from figure 1, it is now easy to fix a welded mesh panel to a post 1 by means of a bracket 3. By guiding the recesses of the bracket 3 above the horizontal wires 5 of the panel 2, the border vertical wire 6 of the panel 2 is hooked into the bracket 3. As already said, it is necessary that the center-to-center distance between the horizontal wires 5 must be equidistant and must be equal to or a multiple of the center-to-center distance between the recesses of the bracket 3.

[0015] The bracket 3 is further provided with a longitudinal aperture 7 for taking up a bolt 8 with washer 9 to be fixed in a threaded insert 10 of the post 1. The bracket 3 is at the two opposite sides of the longitudinal aperture 7 also provided with two supports or shoulders 11 for taking up the clamping forces of the bracket against the post 1 when fixing the bolt 9 into the insert 10.

[0016] Thanks to the longitudinal aperture 7 and the equidistant recesses in the legs 4 of the bracket 3; it is now possible to allow some adjustment of the positioning of the welded mesh panels 1 in vertical and horizontal directions.

[0017] Figure 2 shows a similar perspective view, as shown in figure 1. The same reference numbers are used for indicating the same parts of the fencing to be erected. The four welded mesh panels 2 are now staggered with respect to each other because the fencing is to be erected on a sloping ground.

[0018] Figure 3 shows a plan view of a part of an as-

sembled fencing, whereby two adjacent panels 2 are fixed to a post 1.

[0019] Figures 4 and 5 show plan views similar to figure 3, whereby figure 4 show a 90° corner post of a fencing, whereas figure 5 shows two adjacent posts 1 and two adjacent panels 2 for forming an obtuse angle of a fencing. 5

[0020] Figure 6, 7 and 8 show some detailed views of the fixing bracket 3 according to the invention. Figure 6 shows an upper view of the bracket 3 showing clearly the longitudinal aperture 7, as well as the legs 4 with the equidistant recesses and the two shoulders 11. Figure 7 shows a first side view of the bracket 3 showing particularly the equidistant recesses of one leg 4, whereas figure 8 shows a second side view showing the shoulder 11 at this side. 10 15

Claims

1. Post (1) with fixing bracket (3) for securing at least one welded mesh panel (2) to the post (1), **characterised in that** the fixing bracket (3) consists of a U-shaped fixing plate, of which at least one leg (4) is provided with a number of recesses for taking up the welded mesh panel. 20 25
2. Post according to claim 1, **characterised in that** both legs (4) of the U-shaped fixing plate (3) are provided with a number of recesses for taking up two adjacent welded mesh panels (2). 30
3. Post according to claim 1 or claim 2, **characterised in that** the recesses are equidistant recesses and that each welded mesh panel (2) consists of horizontal (5) and vertical wires (6), whereby the center-to-center distance of the horizontal (5) is equal to or a multiple of the center-to-center distance between the recesses of the fixing bracket (3). 35 40
4. Post according to one or more of the claims 1-3, **characterised in that** the fixing bracket (3) is provided with a longitudinal aperture (7). 45
5. Post according to one or more of the claims 1-4, **characterised in that** the fixing bracket (3) is provided with two supports (11) at two opposite sides of the bracket (3). 50 55

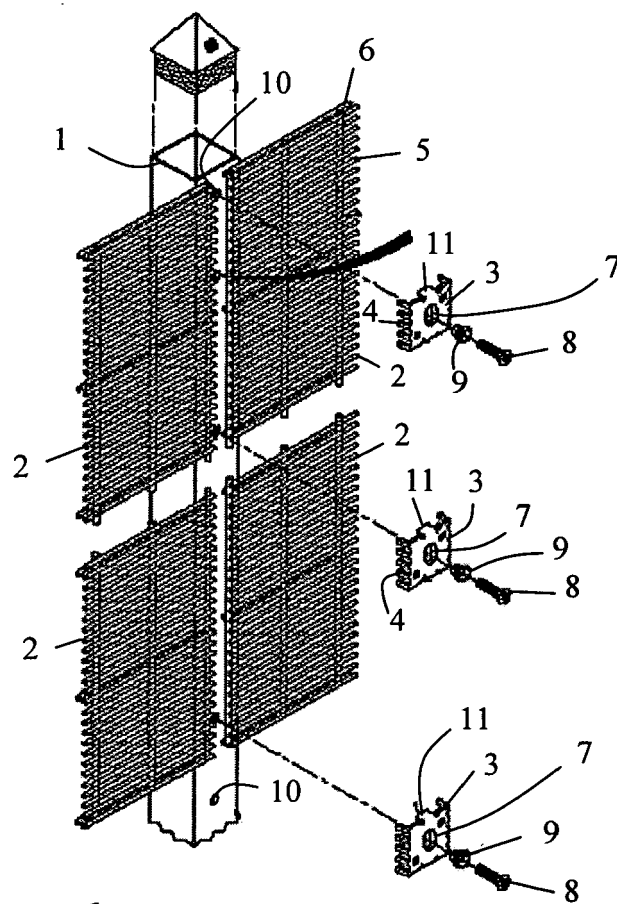


Fig. 1

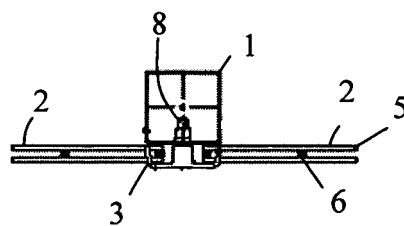


Fig. 3

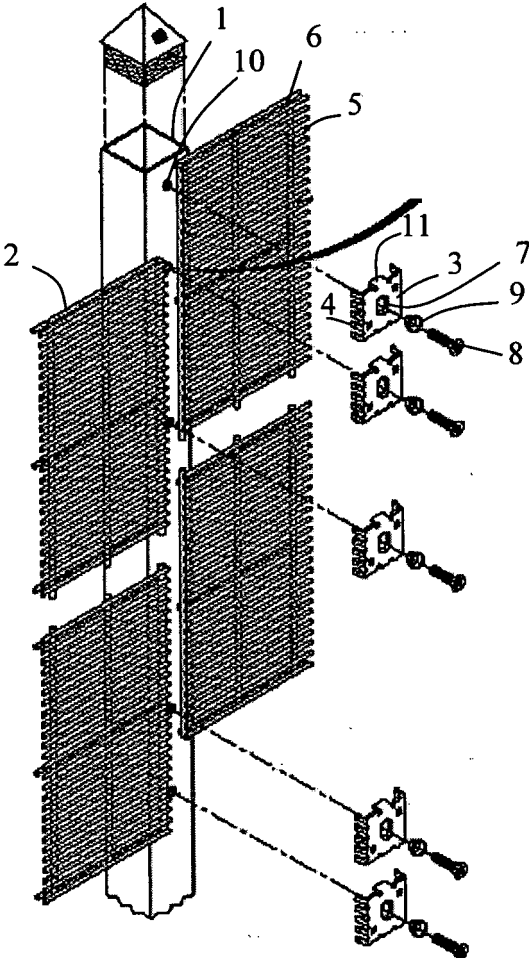


Fig. 2

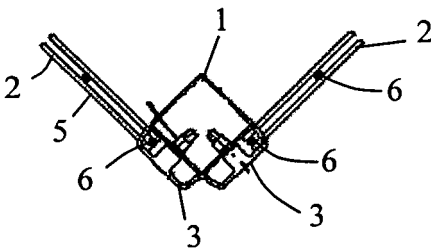


Fig. 4

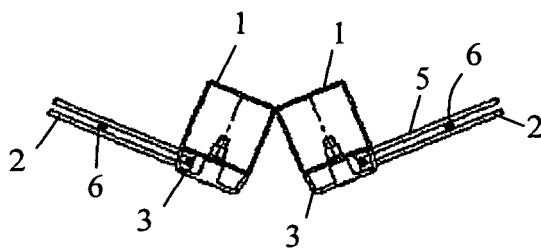


Fig. 5

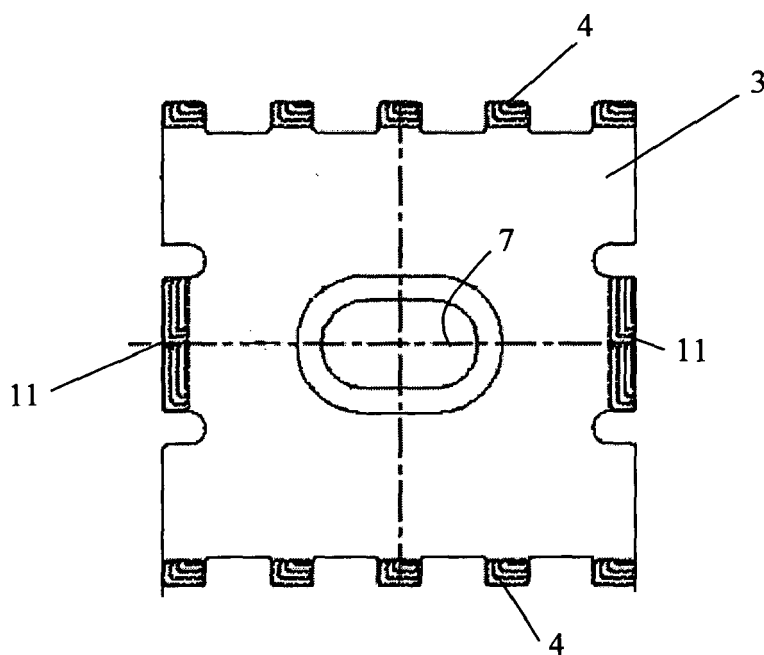


Fig. 6

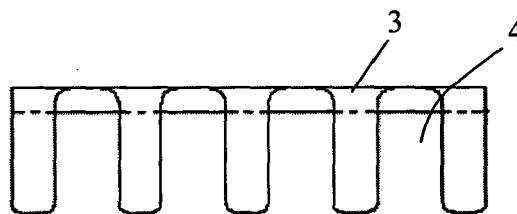


Fig. 7

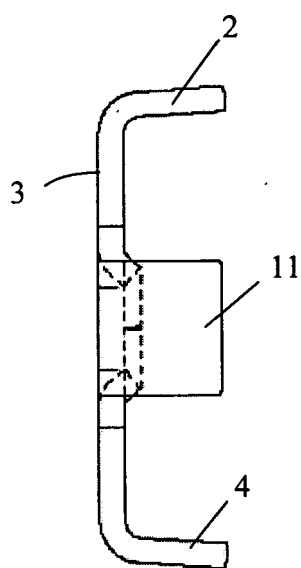


Fig. 8



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 05 07 5879

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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X	FR 2 735 171 A (EUROFENCE) 13 December 1996 (1996-12-13) * the whole document *	1,4,5	
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			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			E04H
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 31 August 2005	Examiner Fordham, A
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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 05 07 5879

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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31-08-2005

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REFERENCES CITED IN THE DESCRIPTION

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