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(54) Anchorage means for handling with windows made from plastics and for their anchorage into building holes

(57) The anchorage means for handling with windows made from plastics and for their anchorage in the building holes, made from the sheet metal strip (2) that is on its one end fitted with the head (4) in which the head hole (11) for the frame screw (3) is made, and the other end of the sheet metal strip (2) is fitted with the heel (6), in which at least one hole (7) for the handling with the window made from plastics and for its anchorage into the building structure (10) are made. Between the head (4) and the heel (6), a neck (8) on the sheet metal strip (2) is made.

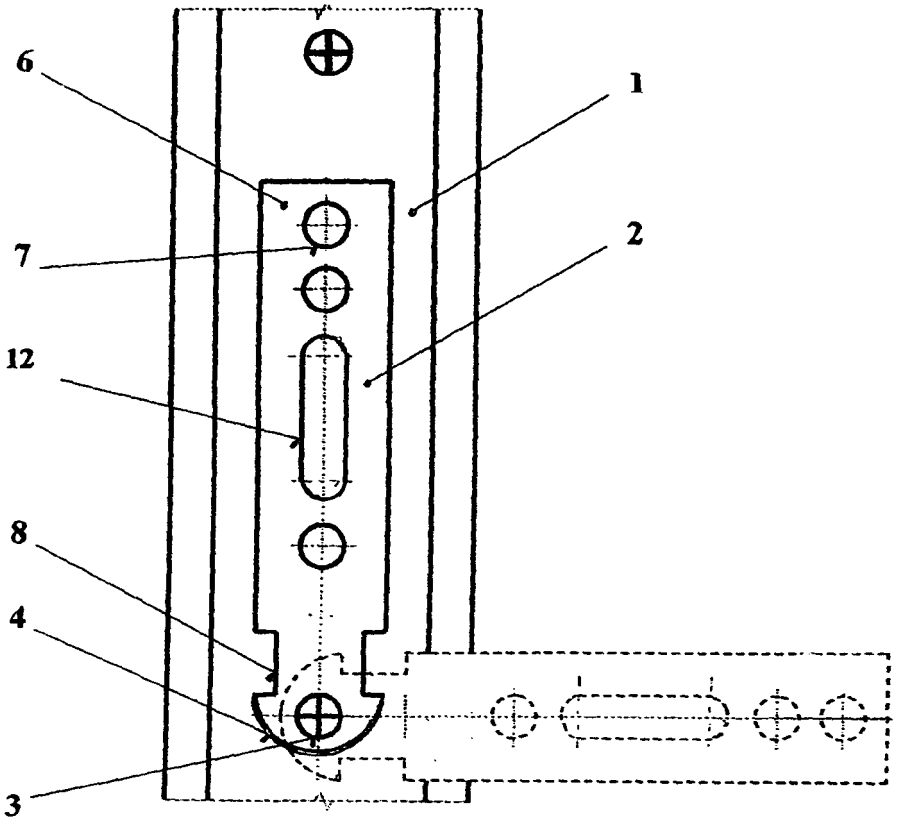

FIG. 1

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Description

Technical Field

[0001] The invention relates to the anchorage means for handling with windows made from plastics and for their anchorage into building holes, suitable for the handling with windows from plastics during their transport to the place of their placing and for the anchorage of windows from plastics into building holes.

Background Art

[0002] At the present time, windows made from plastics were anchoraged during their placing into the building holes by means of sheet-metal catches that will be fastened by forcing of claws, made on one end of the sheet-metal catch, into the anchorage grooves made on the periphery of the plastic part of the frame of the window made from plastics. As in the anchorage grooves made on the plastic part of the window frame, the sheet-metal catches are held only by the forces of the plastic deformation of the plastic part of the window frame, they can by placed into the window frame only immediately before the placing of the window from plastics into the building hole. The disadvantage consists also in the fact, that the forces acting from the window leaf and from the external load of the window are transmitted on the building structure, by which they are absorbed, over the steel stiffener of the frame by the connection screw into the plastic part of the window frame and then by the anchorage grooves over the teeth of the catch. The other disadvantage of the known catch are the increased demands in its production in consequence of the necessity to form claws on one its end.

[0003] The catches made in this way absorbe only forces acting in the direction to the glazed surface of the window. Therefore, they can not be used as means for handling with the windows made from plastics during their transport to the place of placing them into the building holes. With regard to this fact, such windows made from plastics can be carried over only by holding by the hand on the lower part of the window frame what is uncomfortable for persons carrying over windows from plastic to the place of their placing into the building hole, and this creates the risk of damaging of the window made from plastics in consequence of the difficult handling with windows made from plastics.

Disclosure of Invention

[0004] The said disadvantages are in considerable extend eliminated by the anchorage means for handling with windows made from plastics and for their anchorage into building holes, made from the sheet metal strip according to this Invention, the disclosure of which Invention consists in that, that one end of the sheet metal strip is equipped with the head, in that a head hole for the frame screw, and the other end of the sheet metal strip is equipped with a heel, in which at least one hole is made for the handling with the window made from plastics and for its anchorage into the building structure. Such design makes possible to fasten the anchorage means according to the Invention to the frame of the window from plastics by means of a screw connecting the steel stiffener and the plastic part of the frame of the window from plastics. The advantage of such fastening of the anchorage means to the frame of the window from plastics consists in that, that the forces acting from the window leaf and from the external loading of the window are transmitted on the building structure from the steel stiffener of the frame by the frame screw directly into the anchorage means, eliminating in such a way the complicated transmission of the forces from the steel stiffener of the frame over the frame screw and the plastic part of the window frame. This makes possible to use the anchorage means also for the handling with the window from plastics in such a way, that the reliable connection of the anchorage means with the frame of the window from plastics makes possible to bend the anchorage means near to its head into the position substantially perpendicular to the frame of the window from plastics and that will make possible to introduce a suitable handling means into the anchorage hole of the anchorage means making possible to carry over the window from plastics. The advantage of the simple design of the anchorage means is the possibility to reduce costs for its production, its use ensures the more stable fastening of the frame of the window from plastics into the building hole and makes possible to use more efficient from the economical point of view shapes and stiffeners of the frames of windows from plastics.

[0005] The disclosure of Invention consists further in that, that a neck is made on the sheet metal strip between its head and heel, making easy the bending of the anchorage means near to its head on the one hand in bending of the anchorage means for its using as a catch before the transport of the window from plastics, and on the other hand in bending the anchorage means for its use as an anchor before anchoraging the window from plastics into the building hole.

Brief Description of Drawings

[0006] The invention will be close explained by means of the drawing, from which FIG. 1 demonstrates the view on the part of the frame of the window from plastics with the fastened anchorage means, FIG.2 demonstrates the transversal section through the frame of the window from plastics placed and anchoraged in the wall hole by means of the anchorage means, and FIG.3 demonstrates the front view of the anchorage means.

Example of Carrying Out the Invention

[0007] The anchorage means for handling with windows made from plastics and their anchorage in the build-

ing holes is manufactured from the sheet metal strip 2, one end of which is fitted with the head 4 in which a head hole 11 for the frame screw 3 is made, and the other end of the sheet metal strip 2 is fitted with the heel 6 in which at least one hole 7 for the handling with the window made from plastics and for its anchorage into the building hole 10 is made. Between the head 4 of the screw and the heel 6, on the sheet metal strip 2, a neck 8 is made, and between the neck 8 and the heel 6 on the sheet metal strip 2 , the regulating hole 12 is made.

[0008] By means of the frame screw 3, the anchorage means will be fastened through the head hole 11 to the steel stiffener 5 of the frame 1. In bending of the anchorage means into the position perpendicular to the frame 1 of the window made from plastics it will be possible to insert a suitable handling means making possible to carry over the window, into the anchorage hole 7 of the anchorage means. Through an angular displacement of the anchorage means around the frame screw 3 into such a position that after pushing the anchorage means to the frame 1 of the windows made from plastics, the anchorage means were oriented substantially perpendicular to the plane of the window, the window from plastics is prepared for its inserting into the building hole 10, where it will be - after its setting into the desired position by means of the regulating hole 12 - fastened by suitable anchorage elements through the anchorage holes 7.

Claims

1. The anchorage means for handling with windows made from plastics and their anchorage in the building holes, made from the sheet metal strip, **characterized by** that, that one end of the sheet metal strip (2) is fitted with the head (4) in which the head hole (11) for the frame screw (3) is made, and the other end of the sheet metal strip (2) is fitted with the heel (6), in which at least one hole (7) for the handling with the window from plastics and for its anchorage into the building structure (10) is made.

2. The anchorage means for handling with windows made from plastics and their anchorage in the building holes according to the claim 1, **characterized by** that, that between the head (4) and the heel (6), a neck (8) on the sheet metal strip (2) is made.

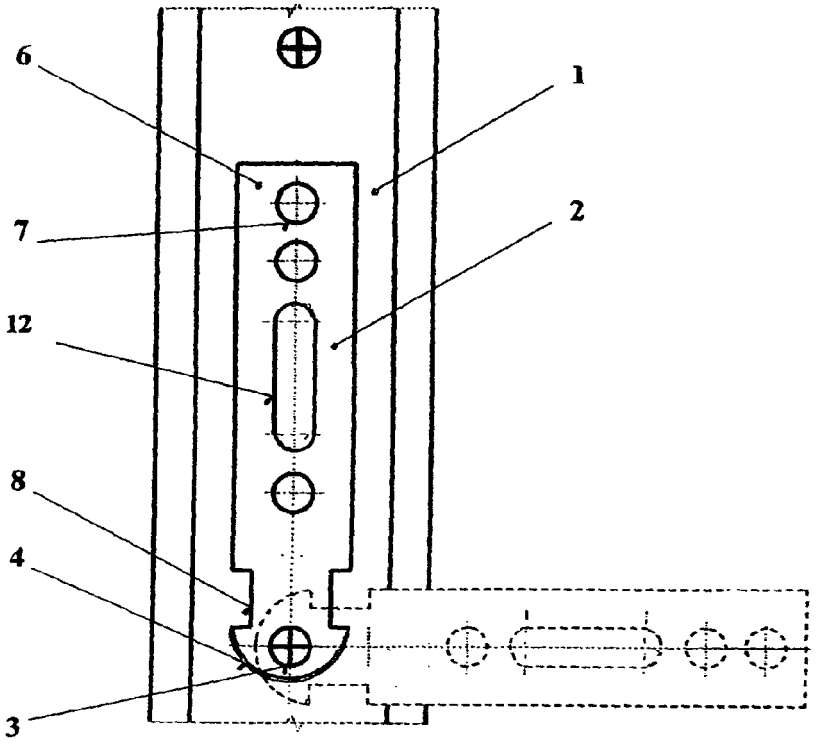

FIG. 1

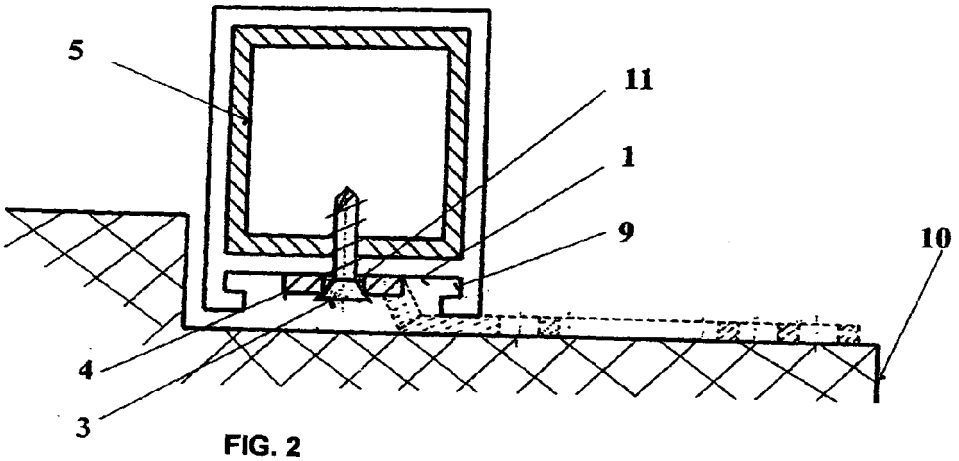

FIG. 2

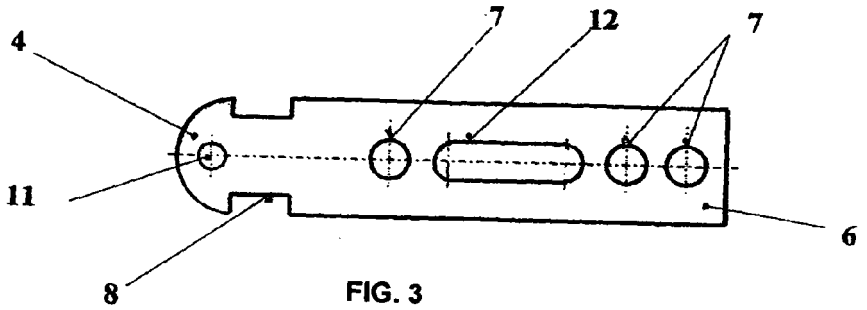

FIG. 3