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(54) **Exterior furniture that combines the functions of chair and table with an articulated mechanism**

(57) The present patent mentions an exterior furniture part that simultaneously combines the functions of table and chair, the related furniture part possesses an articulated mechanism that allows the transformation of a chair in a joined table with two chairs, through a rotation system of the parts. The related furniture part, in the compact position, assumes the figure of a chair with inclined leans, with an angle of about 118° and two lateral supports, to place the arms. The articulated mechanism of

the related part allows that the cited chair transforms into a joined table with two chairs, by sliding the back of the chair (initial position), that causes the simultaneous displacement of the armchairs, as well as part of the seat (initial position) until the final position is reached. Of the related movement results a transformation of the back of the chair (initial position) in a top of the table (final position); on the other hand, the seat of the chair (initial position) is putrefied in two parts that go to form the two seats connected to the table (final position).

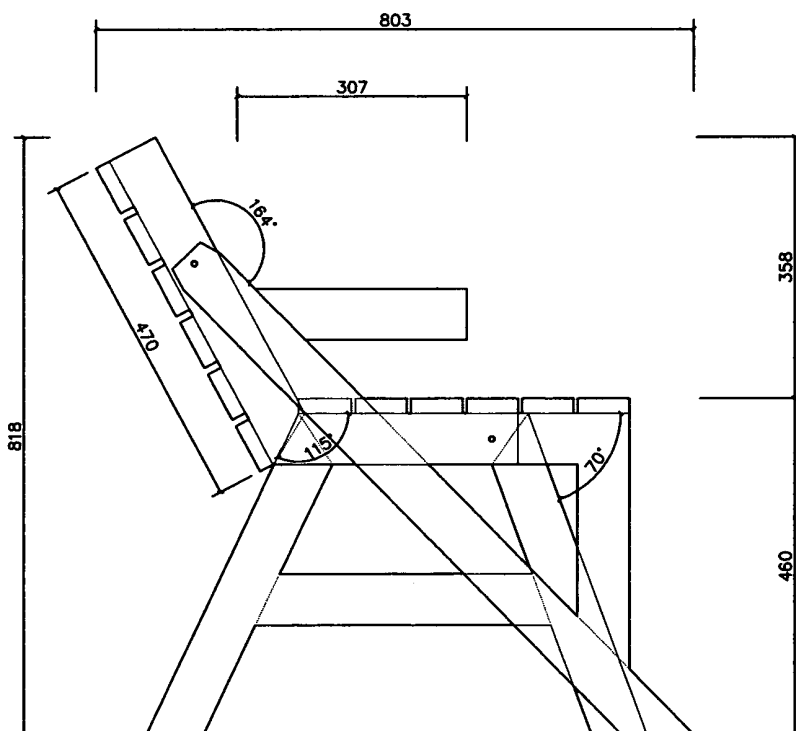


FIG. 2

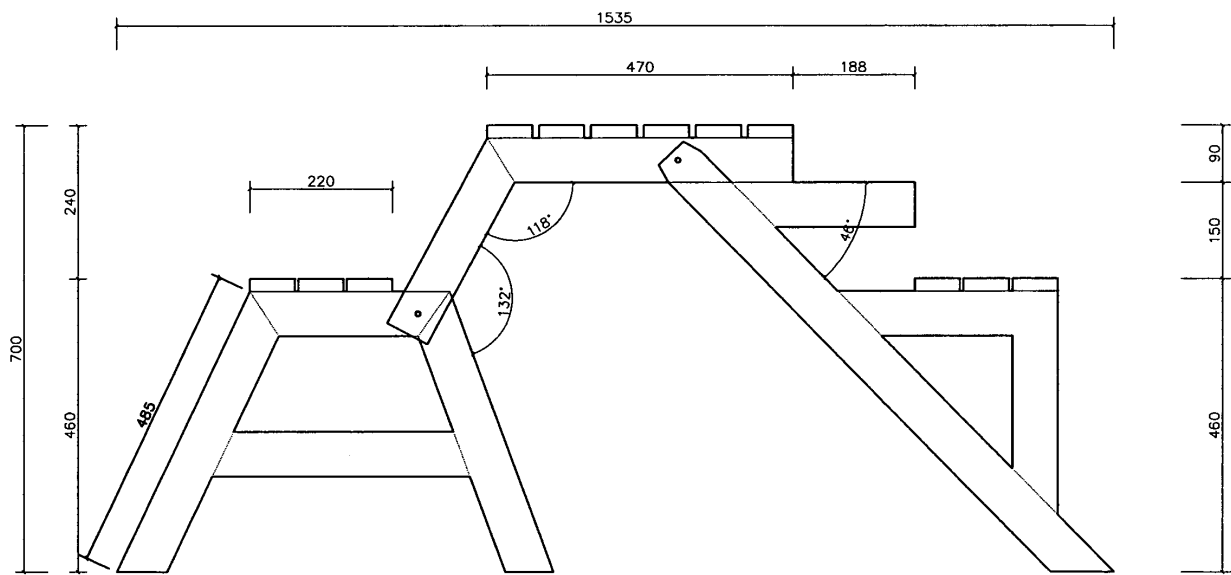


FIG. 4

Description

[0001] The present patent mentions an exterior furniture part that simultaneously combines the functions of table and chair.

[0002] The related furniture part possesses an articulated mechanism that allows the transformation of a chair in a joined table with two chairs, through a rotation system of the parts.

[0003] The related furniture part, in the compact position, assumes the figure of a chair with inclined leans, with an angle of about 118° and two lateral supports, to place the arms.

[0004] The articulated mechanism of the related part allows that the cited chair transforms into a joined table with two chairs, by sliding the back of the chair (initial position), that causes the simultaneous displacement of the armchairs, as well as part of the seat (initial position) until the final position is reached.

[0005] Of the related movement results a transformation of the back of the chair (initial position) in a top of the table (final position); on the other hand, the seat of the chair (initial position) is putrefied in two parts that go to form the two seats connected to the table (final position).

[0006] The articulated mechanism of the part allows that in the end, the same part figures a table integrated in two chairs.

[0007] As chair (initial position) the part presents a cubical ratio, with approximately an edge of 800 mm.

[0008] The seat of the chair has 460 mm of height and 450 mm of depth; the back of the chair has 818 mm height and 803 mm of depth.

[0009] As table (final position), the part presents the following ratios: 700 mm of height, 1535 mm of length and 800 mm of width.

[0010] The top of the table is 700 mm height and 470 mm depth.

[0011] The seats are 460 mm height, having the two seats 220 mm of depth respectively.

[0012] Of the part, in its final position, it is possible to glimpse three indivisible parts that if articulate, constituting one unit.

[0013] Part 1 is simultaneously a part of the seat of the chair (original position), constituting one of the seats and legs of the table, constituted by 12 tubular profiles in anodise aluminium with 70x20.

[0014] Part 2 represents the top of the table (final position), that constituted the inclined back of the chair (initial position), being constituted of 10 tubular profiles.

[0015] Part 3 is simultaneously constituted by the lateral supports of the chair and by a part of the seat of the chair (initial position), as well as for a leg and one of the seats of the table (final position), being formed for 11 tubular profiles.

[0016] The profiles union is made in half square by fastening with srew with inox screws of 4,8x32 or glued with cilicone with angle-irons of anodise aluminium.

[0017] The convertible part in table and chair seats basically in two joints that simultaneously allows the transformation of the part in table and chair.

[0018] Such joints are made with an screw thread and take one ring of nylon that avoid the stress of the tubular profiles.

[0019] The variation of the angles of the part in its initial configuration of chair is of 118°, 115°, 70° and in the posterior configuration of table it is of 118°, 132°, 46°.

[0020] The clear patent now goes to be explained with more detail, through the aid of the attached drawings under chapter 4, in which:

Figure 1 describes the plant of the chair (initial position).

Figure 2 describes the view of the chair (initial position).

Figure 3 describes the plant of the set (final position).

Figure 4 describes the view of the set (final position).

Figure 5 describes the frontal view of part 1.

Figure 6 describes the lateral view of part 1.

Figure 7 describes the plant of part 1.

Figure 8 describes the transversal cut of part 1.

Figure 9 describes the longitudinal cut of part 1.

Figure 10 describes the frontal view of part 2.

Figure 11 describes the lateral view of part 2.

Figure 12 describes the plant of part 2.

Figure 13 describes the transversal cut of part 2.

Figure 14 describes the longitudinal cut of part 2.

Figure 15 describes the frontal view of part 3.

Figure 16 describes the lateral view of part 3.

Figure 17 describes the plant of part 3.

Figure 18 describes the transversal cut of part 3.

Figure 19 describes the longitudinal cut of part 3.

Figure 20 describes the constructive system of part 1.

Figure 21 describes the explosion of part 1.

Figure 22 describes the constructive system of part 2.

Figure 23 describes the explosion of part 2.

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Figure 24 describes a legend of materials.

Figure 25 describes the constructive system of part 3.

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Figure 26 describes the explosion of part 3.

Claims

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1. - Exterior furniture part that combines the table and chair functions simultaneously, **characterized for** possessing an articulated mechanism that allows the transformation of a chair in a joined table with two chairs, by sliding the back of the chair (initial position), that causes the simultaneous displacement of the armchairs, as well as part of the seat (initial position) until the final position is reached, that results in a transformation of the back of the chair (initial position) in a top of the table (final position); on the other hand, the seat of the chair (initial position) is putrefied in two parts that go to form the two seats connected to the table (final position). 20 25
2. - Part in accordance with asked for claim 1, **characterized for** seating basically in two articulations (132°) e (46°) made with one screw thread with one ring that avoid the stress of the tubular profiles, that allows that the haul of the same converts in the chair (initial position) in a table with two chairs linked between itself (final position). 30 35

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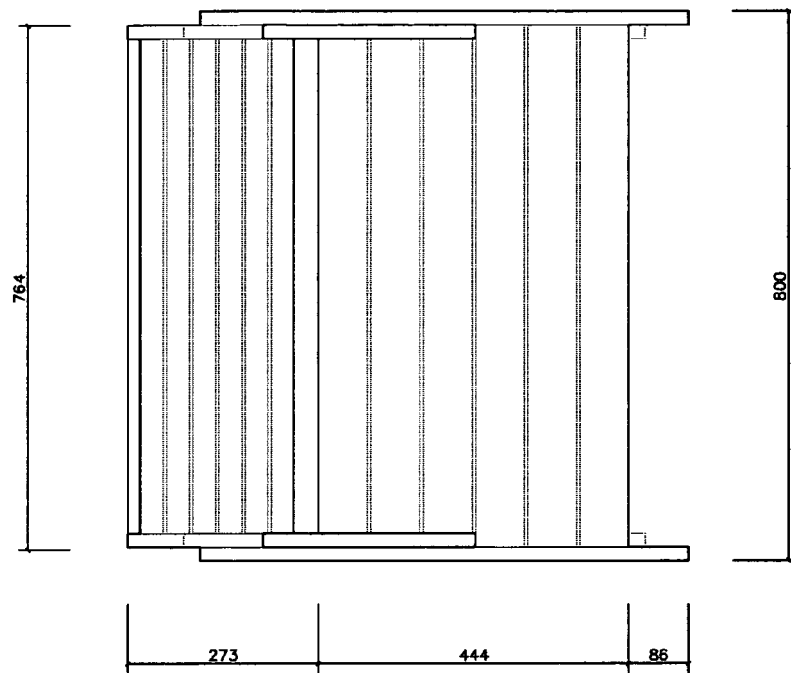


FIG. 1

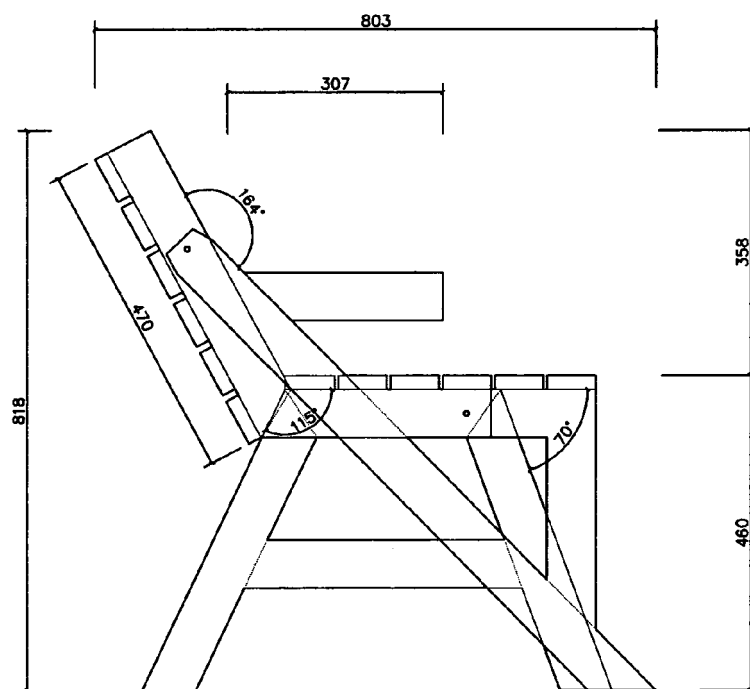


FIG. 2

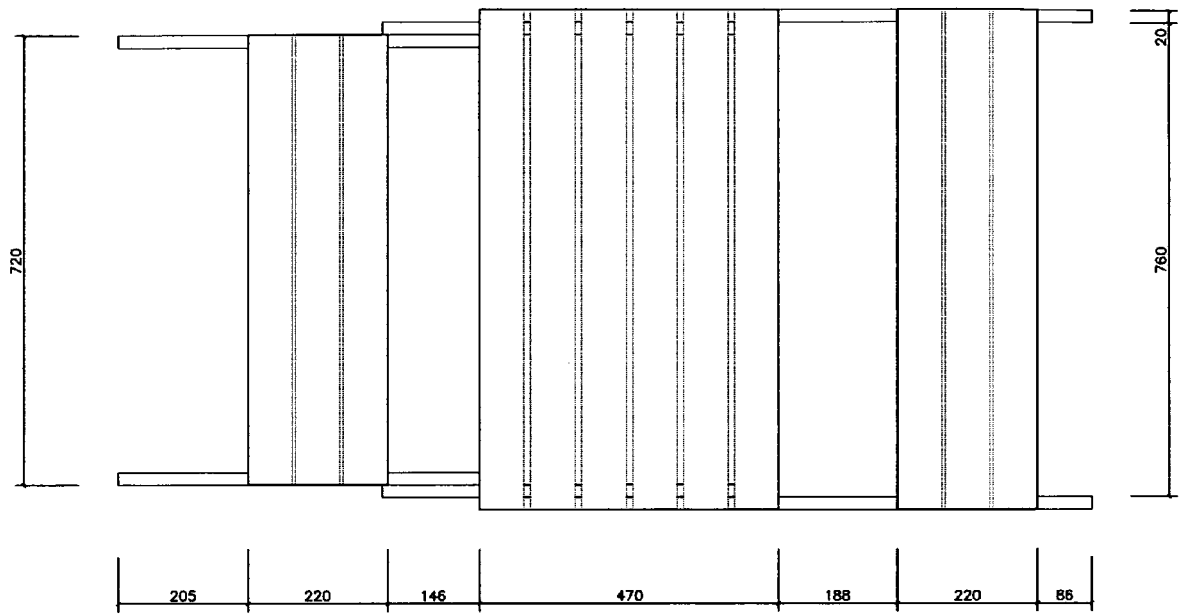


FIG. 3

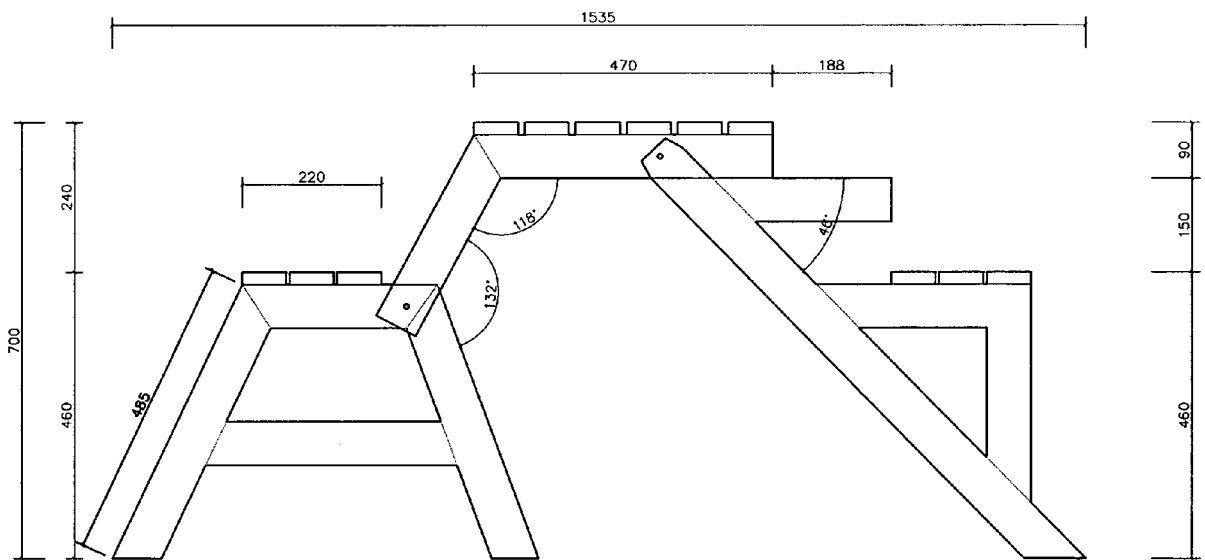


FIG. 4

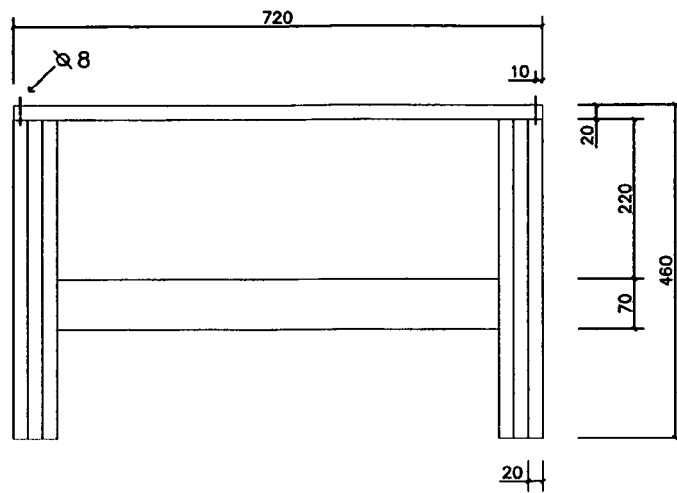


FIG. 5

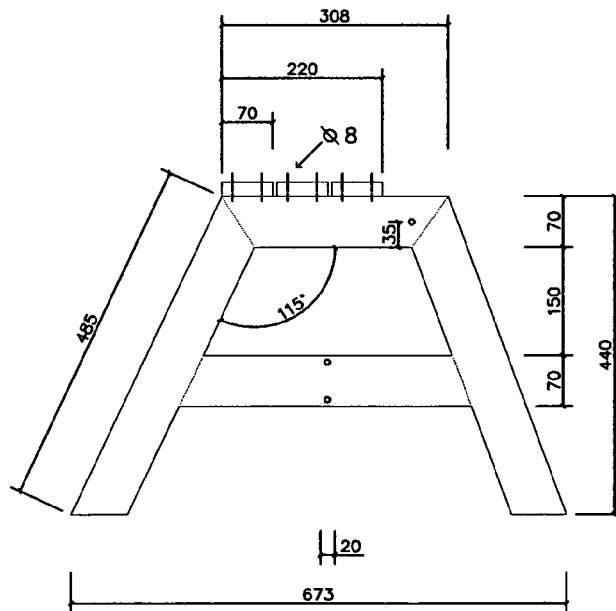


FIG. 6

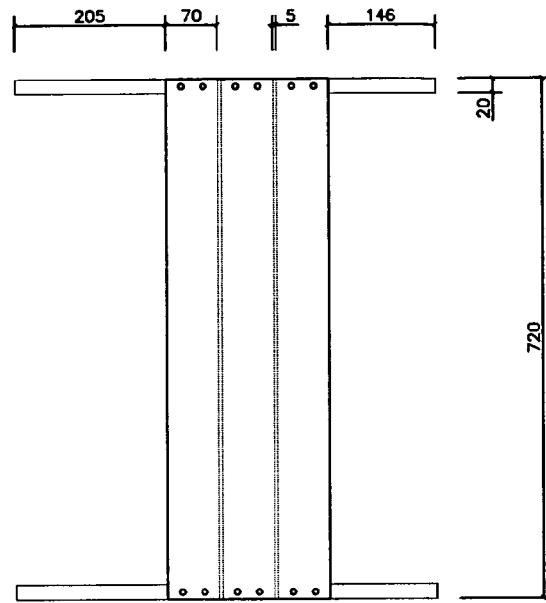


FIG. 7

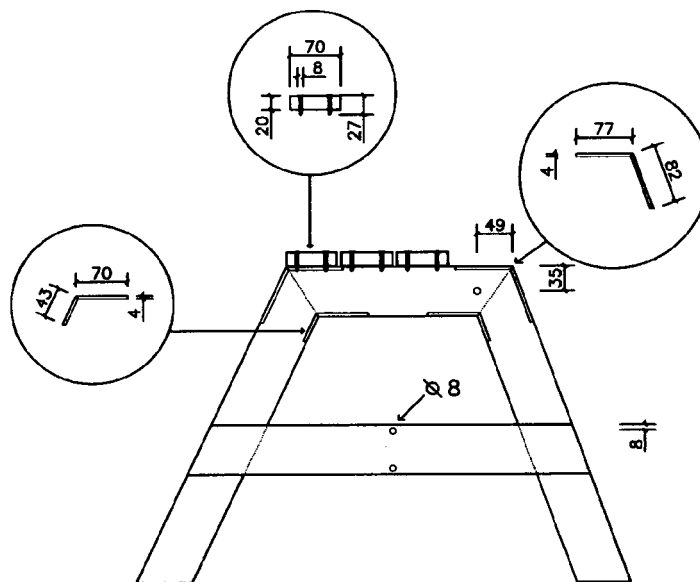


FIG. 8

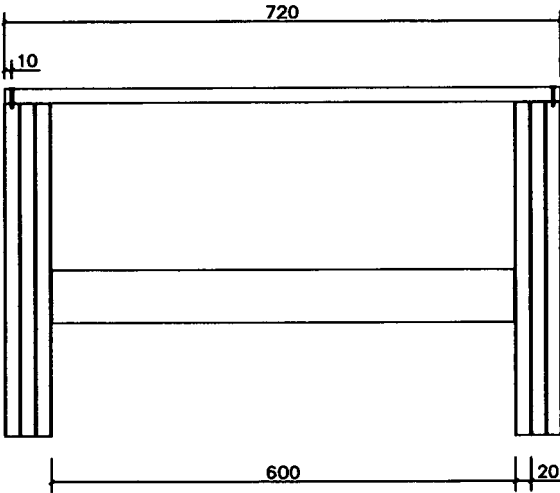


FIG. 9

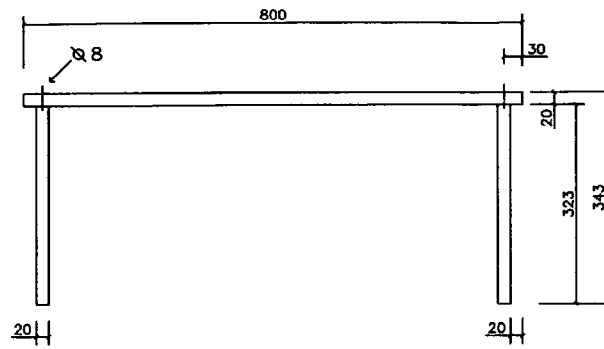


FIG. 10

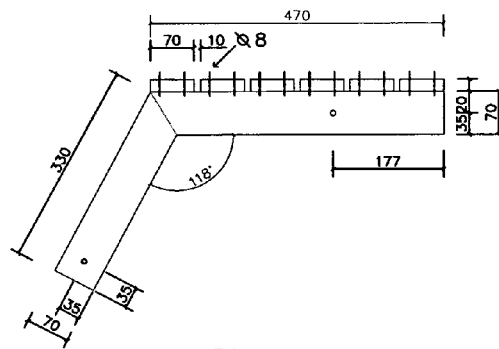


FIG. 11

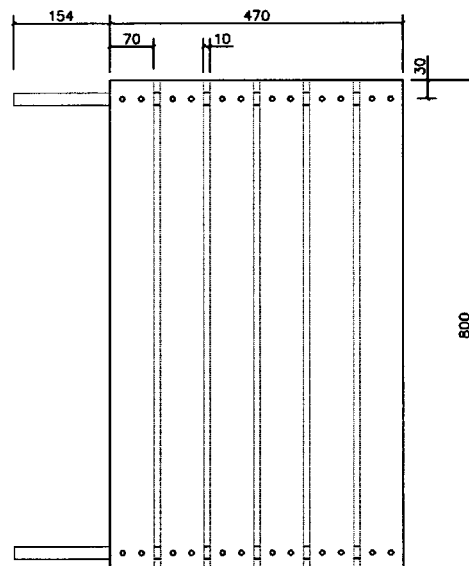


FIG. 12

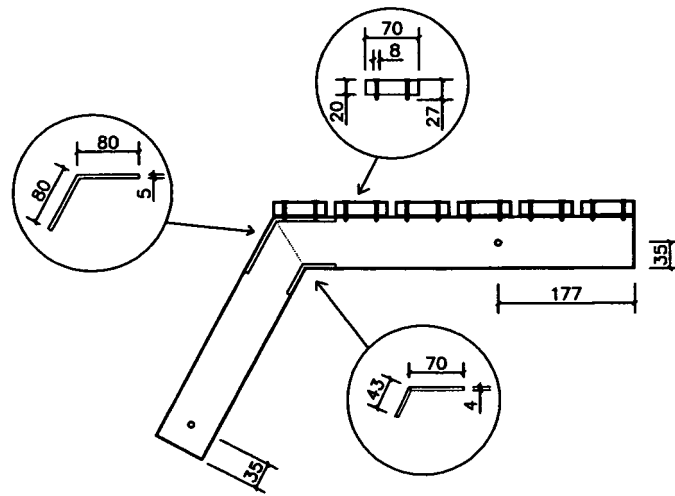


FIG. 13

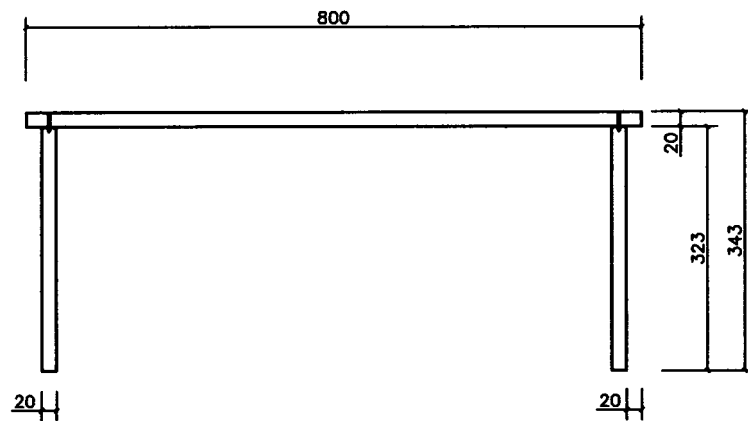


FIG. 14

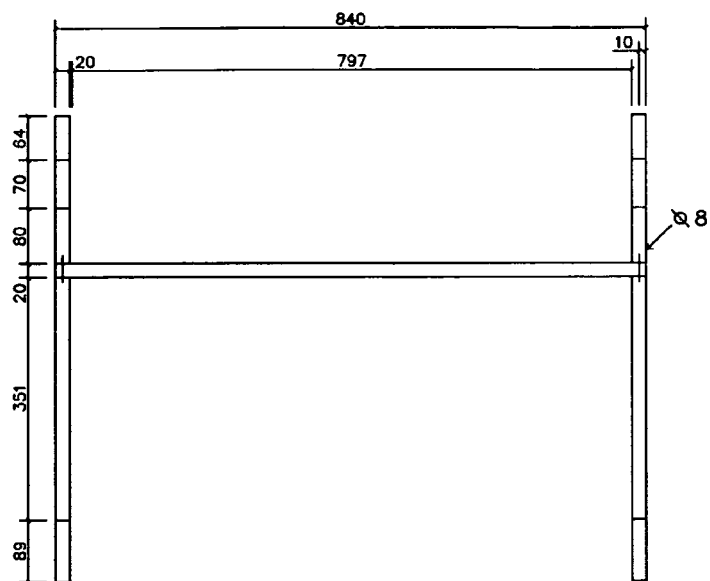


FIG. 15

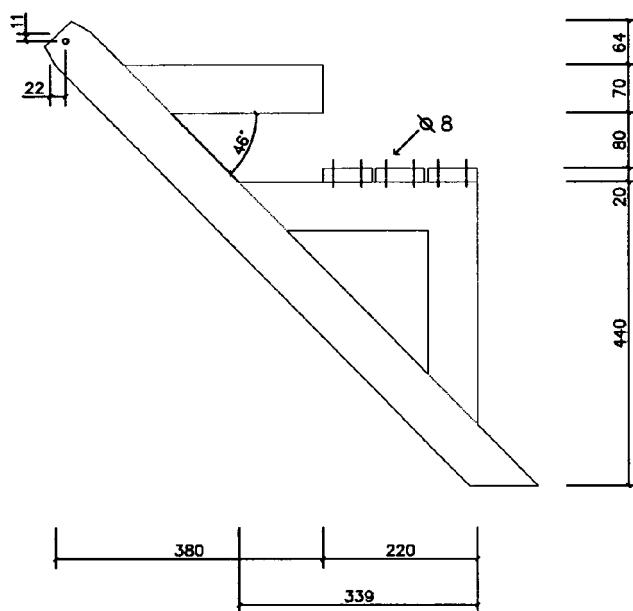


FIG. 16

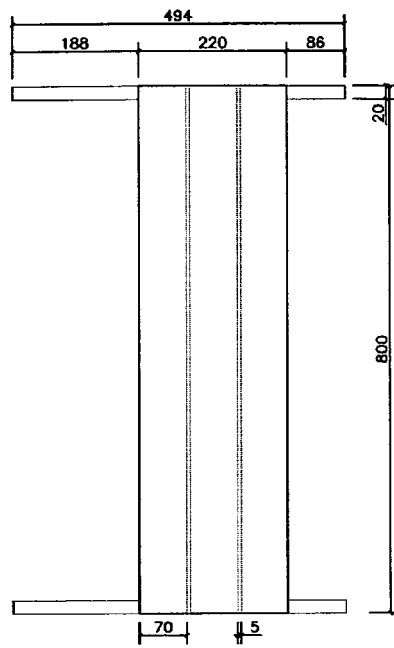


FIG. 17

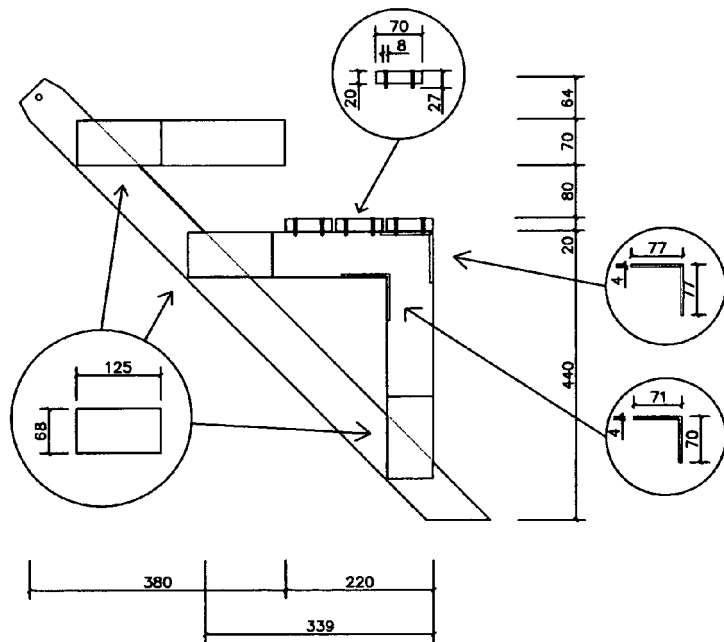


FIG. 18

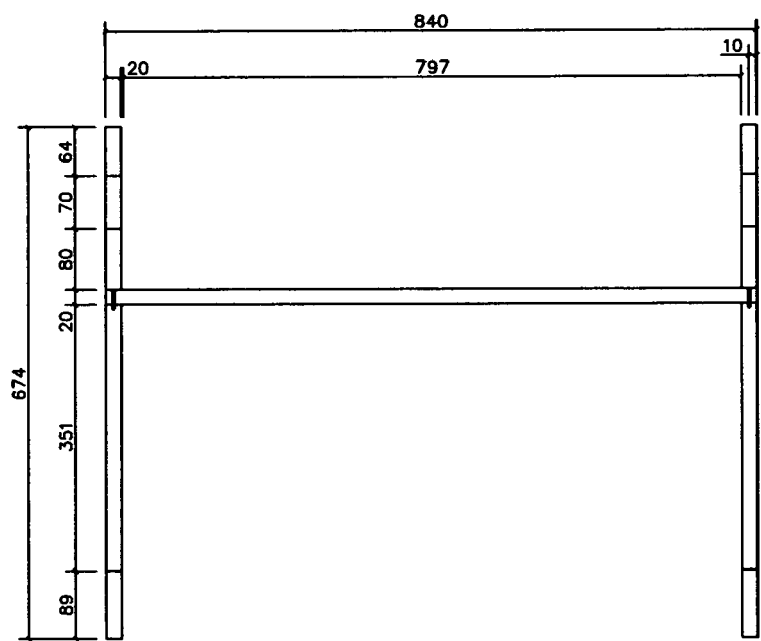


FIG. 19

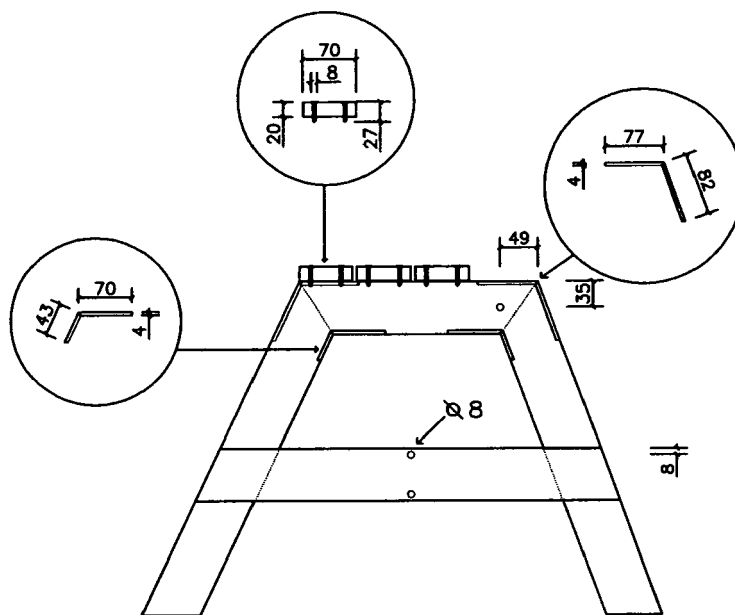


FIG. 20

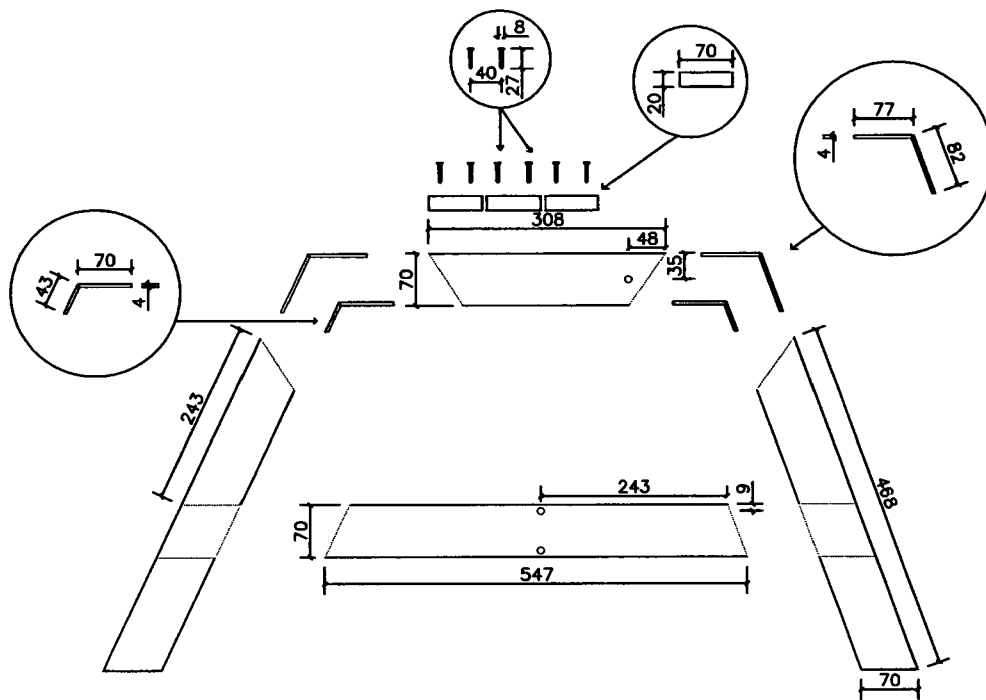


FIG. 21

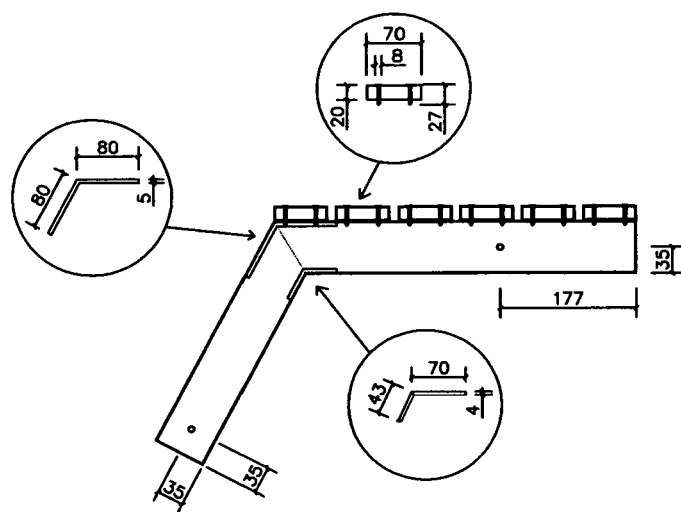


FIG. 22

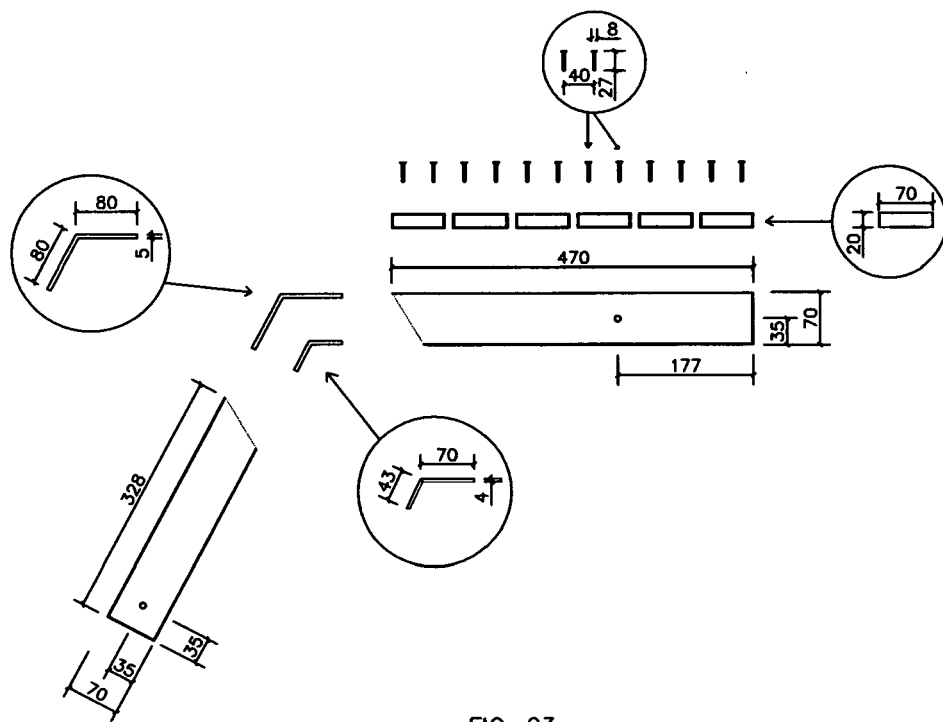


FIG. 23

LEGEND OF MATERIALS

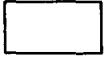
	ANGLE-IRONS IN ANODISE ALUMINIUM IN NATURAL COLOR
	TUBULAR PROFILE WITH 70X20 IN ANODISE ALUMINIUM IN NATURAL COLOR
	INOX SCREW WITH 4,8X32
	PIECES OF NYLON
	TRANSPARENT SILICONE

FIG. 24

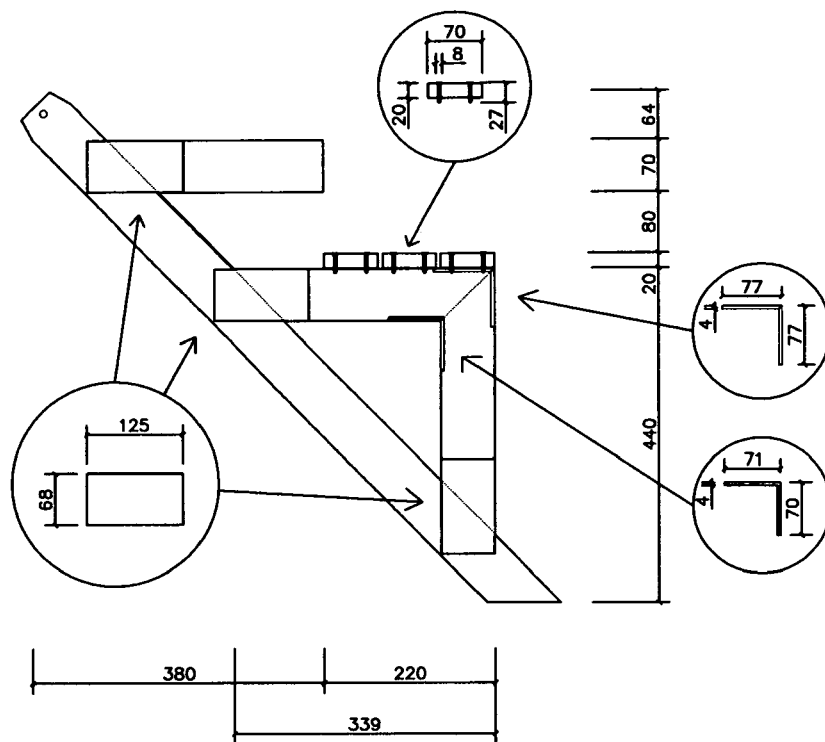


FIG. 25

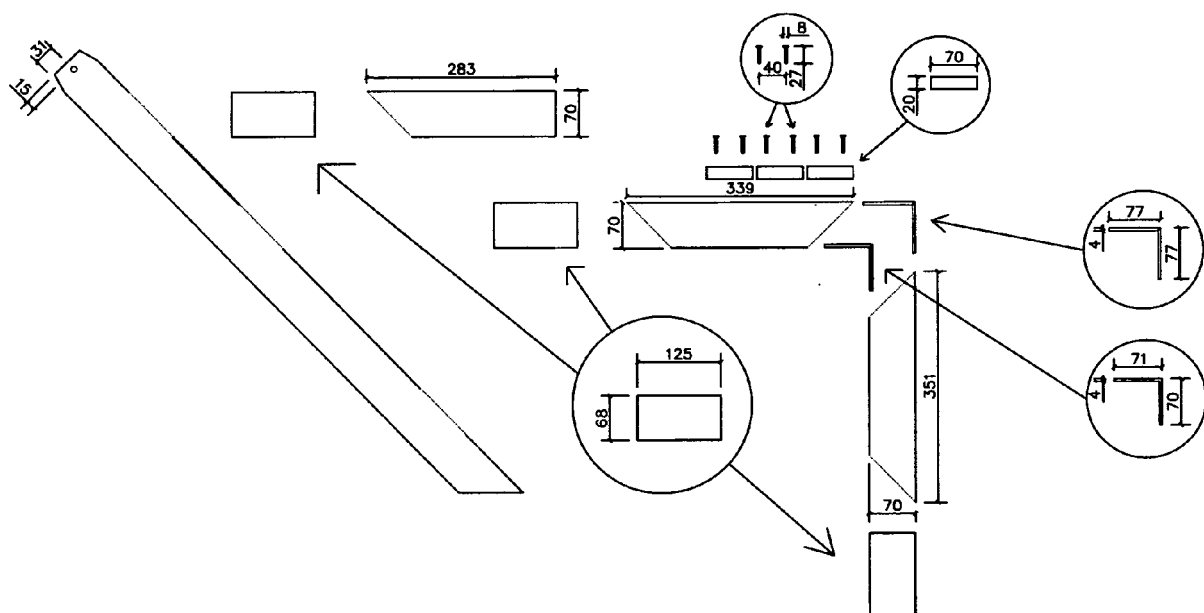


FIG. 26



European Patent
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EUROPEAN SEARCH REPORT

Application Number
EP 06 39 8010

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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 18 December 2006	Examiner Kus, Slawomir
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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EPO FORM 1503 03.82 (P04C01)

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

EP 06 39 8010

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82