" CHARPENTO "

JEU DE CONSTRUCTION

NOTICE

E. [illegible], 16, rue d'Hauteville, PARIS (10e)

"CHARPENTO"

BOX No. 1.

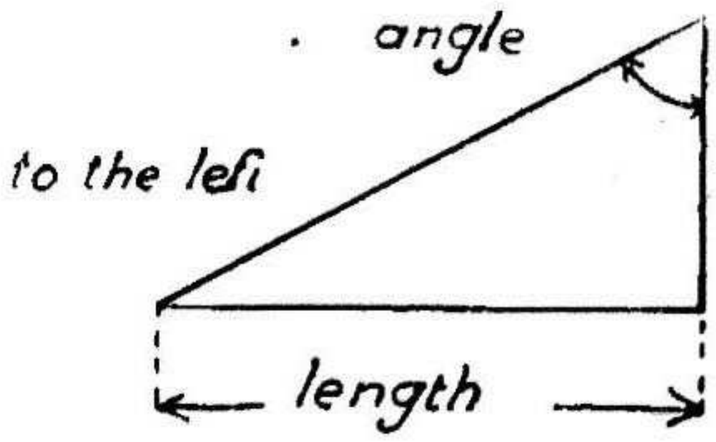
COMPOSITION OF THE BOX

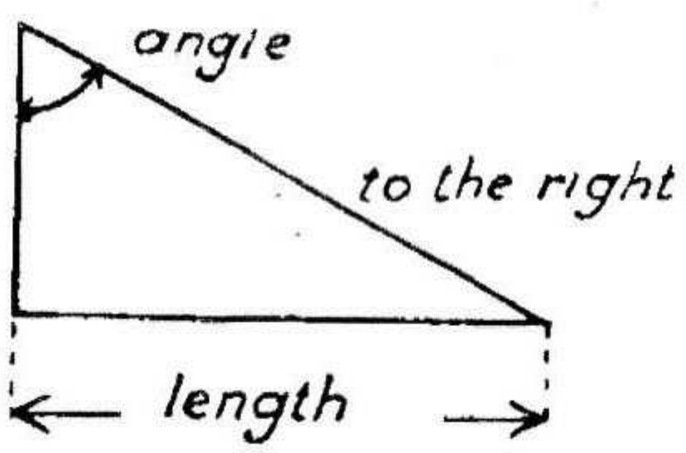
1. — BEAMS.

8	Beams	No. 11,	length	25 c/m.
8	—	No. 12.	—	20 c/m.
8	—	No. 13,	—	15 c/m.
20	—	No. 14,	—	10 c/m.
8	—	No. 15,	—	5 c/m.

2. — HALF-TRUSSES.

N. B. — In order to find the direction of a half-truss, it will suffice to place it flatwise on a table, with the sides up. The position of the small angle to the right or left of the right angle will show the direction of the piece.





4	Half-trusses	No. 21,	length	15 c/m,	angle	60° to the right.
4	—	No. 21*bis*,	—	15 c/m,	—	60° to the left.
4	—	No. 22,	—	10 c/m,	—	60° to the right.
4	—	No. 22*bis*,	—	10 c/m,	—	60° to the left.
4	—	No. 23,	—	15 c/m,	—	75° to the right.
4	—	No. 23*bis*,	—	15 c/m,	—	75° to the left.
8	—	No. 24,	—	15 c/m,	—	45°.
8	—	No. 25,	—	2,5 c/m,	—	45°.

3. — ANGLE IRONS.

6 Angle irons No. 34, length 10 c/m.
5 — No. 35, — 5 c/m.

4. — STIFFENERS.

16 Stiffeners 8 holes, No. 45, length 5 c/m.

5. — FLANGE PLATES and CONNECTING PIECES.

4 Flange plates No. 52, length 20 c/m.
4 End-pieces for flange plate No. 55.
3 Connecting pieces for flange plate No. 56.

6. — ROOFING MATERIAL.

12 Roofing slabs No. 61.
2 Ridge tiles No. 62.
6 Connecting pieces for ridgetiles, No. 63.

7. — WALLS and COVERING.

4 Wall plates No. 71.

8. — BOLTS and NUTS.

175 Screws No. 81, length 5 m/m.
6 — No. 82, — 12 m/m,
75 Nuts No. 84

9. — ACCESSORIES.

1 Screw-driver No, 91.
2 m. 50 Cord yellow No. 93.
2 m. 50 — blue No. 94.
6 insulating pulleys N° 95.

CONSTRUCTIONS

(After the Model No. 5, see the sketches).

MODEL No. 1.

BENCH. — *Composition :*

1 Beam No. 14.
3 Angle irons No. 34.
2 — No. 35.

MODEL No. 2.

TABLE. — *Composition :*

1 Half-truss No. 21.
1 — No. 21 *bis*.
4 Angle irons No. 35.

Erection : First connect together the 2 half-trusses by means of 2 nuts in order to form the top of the table.

Then put on the 4 feet, taking care to turn the sides of the angle irons inwardly, so as to have a fine appearance.

MODEL No. 3.

SIMPLE SWING. — *Composition :*

2 Beams No. 12.
3 — No. 14.
1 — No. 15.

2 Half-truss No. 22.
2 — No. 22 *bis*.

Erection : First make the frame by joining the two beams No. 12 to the 3 beams No. 14, by means of 12 nuts.

Then join the 4 half-trusses Nos. 22 and 22 *bis* to the whole ; lastly, put on the seat of the swing.

MODEL No. 4.

SWING FOR FAIRS. — *Composition :*

7 Beams No. 11,
6 — No. 14.
2 Half-trusses No. 21.
2 Half-trusses No. 21 *bis*.
8 — No. 25.

Erection : Erect the frame by first putting together four beams No. 11 two by two, and back to back, and then the other 3 beams.

Then put the 4 half-trusses Nos. 21 and 21 *bis* upon the whole. Construct each of the boats by putting together three beams No. 15, so as to form the main body of the boat ; 4 half-strusses No. 25 to form the end of the boat.

Then place the swings on the frame.

MODEL No. 5.

ANTENNA FOR WIRELESS. — *Composition :*

8 Beams No. 11.
8 — No. 12.
2 Angle irons No. 34.
4 Flange plates No. 52.
2 End-pieces for flange plate No. 55.
3 Coupling pieces for flange plate No. 56.
6 insulating pulleys N° 95.

Erection : First erect each of the poles by joining on the one hand 4 beams No. 11 and on the other and 4 beams No. 12 ; then by placing end to end each of the beams thus formed.

On the other hand, place end to end, by means of the flange plate connecting pieces No. 56, the 4 flange plates No. 52, and terminate each end by end-piece No. 55.

Set up the two poles on the flange plates, and finish by attaching an angle iron No. 34 to the ridge of each pole.

Lastly, set up the antenna and stretch the wires between the two poles by means of 6 insulating pulleys N° 95.

Connect the 3 braces of the antenna to one end, and connect this end to the station.

MODEL No. 6.

SMALL GARAGE. — *Composition :*

4 Beams No. 14.
2 Half-trusses No. 22.
2 — No. 22 *bis*.
2 — No. 24.
4 Roofing slabs No. 61.
1 Ridge tile No. 62.
3 Coupling pieces for ridge tiles No, 63.
3 Wall plates No. 71.

Erection : First erect the two trusses.

Then put on the roofing slabs, fastening them by means of bolts to the trusses.

The holes in the lower roofing slab should correspond to the last hole of the truss.

Place lastly the wall plates upon the whole.

MODEL No. 7.

FARM SHED. — *Composition :*

8 Beams No. 11.
8 — No. 12.
8 Half-trusses No. 24.
4 — No. 21 *bis*.
12 Roofing slabs No. 61.
2 Ridge tiles No. 63.
6 Connecting pieces for ridge tiles No. 63.

Erection : First construct the 3 bays.

I. — 1st Bay.

Join 2 Beams No. 11.
to 2 Corner plates No. 24.
1 Half-truss No. 21.
1 — No. 21 *bis*.

2nd Bay.

1. Join 2 Beams No. 11.
to 2 Corner plates No. 24.
1 Half-truss No. 21 *bis*.
1 — No. 21.

2. Join 2 Beams No. 12.
to 2 Corner plates No. 24.
1 Half-truss No. 21 *bis*.
1 — No. 21.

Then place the two half-pieces together back to back so as to form the central bay.

3rd Bay.

Join 2 Beams No. 11.
to 2 Corner plates No. 24.
1 Half-truss No. 21 *bis*.
1 Half-truss No. 21.

II. — Then erect the beams which serve to maintain the spacing of the bays.

III. — Then take for each side :

2 Flange plates No. 52.
2 End-pieces for flange plate No. 55.
1 Connecting piece for flange plate No. 56.

Slide the connecting piece in the interior of the flange plates in such manner that the holes of the flange plates will correspond to the holes of the connecting pieces ; perform the same operation for the end-pieces.

IV. — Then mount the bases of the bays upon the flange plates, by means of two screws per beam No. 11.

V. — Place the roofing slabs upon the bays. The roofing slabs should be mounted by commencing with the lowest ones ; the hole formed in the roofing slab should correspond to the last hole formed at the end of the half-trusses.

VI. — Mount lastly the ridge tiles No. 62. joining them by means of ridge tile connecting pieces No. 63.

MODEL No. 8.

COVERED PLATFORM FOR PASSENGERS.

Composition :

4 Beams No. 11.
8 — No. 12.
4 — No. 13.
2 — No. 14.
4 — No. 15.
2 Angle irons No. 34.
4 Half-trusses No. 21.
4 — No. 21 *bis*.
4 Half-trusses No. 23.
4 — No. 23 *bis*.
12 Roofing slabs No. 61.
2 Ridge tiles No. 62.
6 Connecting pieces for ridge tiles No. 63.
2 Wall plates No. 71.

Erection :

I. — First construct the posts by joining :

1. 1 beam No. 11 to 1 half-truss No. 21 and 1 half-truss No. 21 *bis*;
2. *a)* 1 beam No. 11 to 1 half-struss No. 21 and 1 half-struss No. 21 *bis*;
   b) 1 beam No. 11 to 1 half-strus No. 21 *bis* and 1 half-struss No. 21;

   Then join back to back the beams *a)* and *b)* thus formed.
3. 1 beam No. 11 to 1 half-truss No. 21 *bis* and 1 half-truss No. 21.

II. — Then erect the frame of the platform :

1. For this purpose join end to end, and two by two, 4 beams No. 12. and then connect them together by two beams No. 14;
2. Connect together, by means of 2 angle irons No. 34 the two wall plates, placing the side on which the bricks are printed, at the bottom.
3. Join the footway thus formed to the frame previously erected.

   N. B. — It is proper in this construction as well as in the preceding, to always leave free the 2 rows of holes situated immediately on either side of the lengthwise axis of the footway.

III. — Construct the Roof :

1. For this purpose, place back to back 2 half-trusses No. 23 and 2 half-trusses No. 23 *bis*, in order to form 2 double half-trusses.
2. Join each of these double half-trusses to 2 other half-trusses, 1 No. 23 and 1 No. 23 *bis*. by means of 2 beams No. 12.
3. Upon each of the constructions thus formed, lay 6 roofing slabs, commencing with the lower rows. The hole formed in the roofing slabs should correspond to the last hole of the half-trusses.

IV. — Construction of the whole :

1. First join each post to the footway ; the 2 posts situated at the ends should have their flanges turned towards the inside, and the double post is to be placed in the middle.

2. Maintain the spacing of the posts and the stiffness of the whole, by means of 4 beams each consisting of one beam No. 13 and one beam No. 15, previously joined together end to end.
3. Assemble the 2 half-roofs previously put togeter, directing the slope towards the interior.
4. Join the 2 half-roofs by the ridge tiles, by means of the ridge tile connecting pieces.

The ridge tiles which are turned towards the bottom now represent the gutter.

MODEL No. 9.

ROAD BRIDGE. — *Composition :*

6 Beams No. 11.	3 Hal-trusses No. 22.
8 — No. 12.	3 — No. 22 *bis*.
17 — No. 14.	4 Plates No. 72.
4 Half-trusses No. 21.	16 Stiffeners No. 45.
4 — No. 21 *bis*.	6 Angle irons No. 35.

Erection :

I. — First erect the two sides of the framework of the bridge.

II. — Join the two sides.

III. — To construct the roadway of the bridge, connect together end to end, by means of angle irons, the plates No. 72, turning the side on which the bricks are printed, to the bottom ; at each end, replace the ange iron by 1 beam No. 15 which is to be placed flatwise below the roadway.

Then mount the stiffeners.

IV. — To construct the parapets, join end to end, and 4 by 4, the beams No. 12.

V. — Put on the roadway of the bridge, and connect it, at the same time as the parapets, to the framework of the bridge.