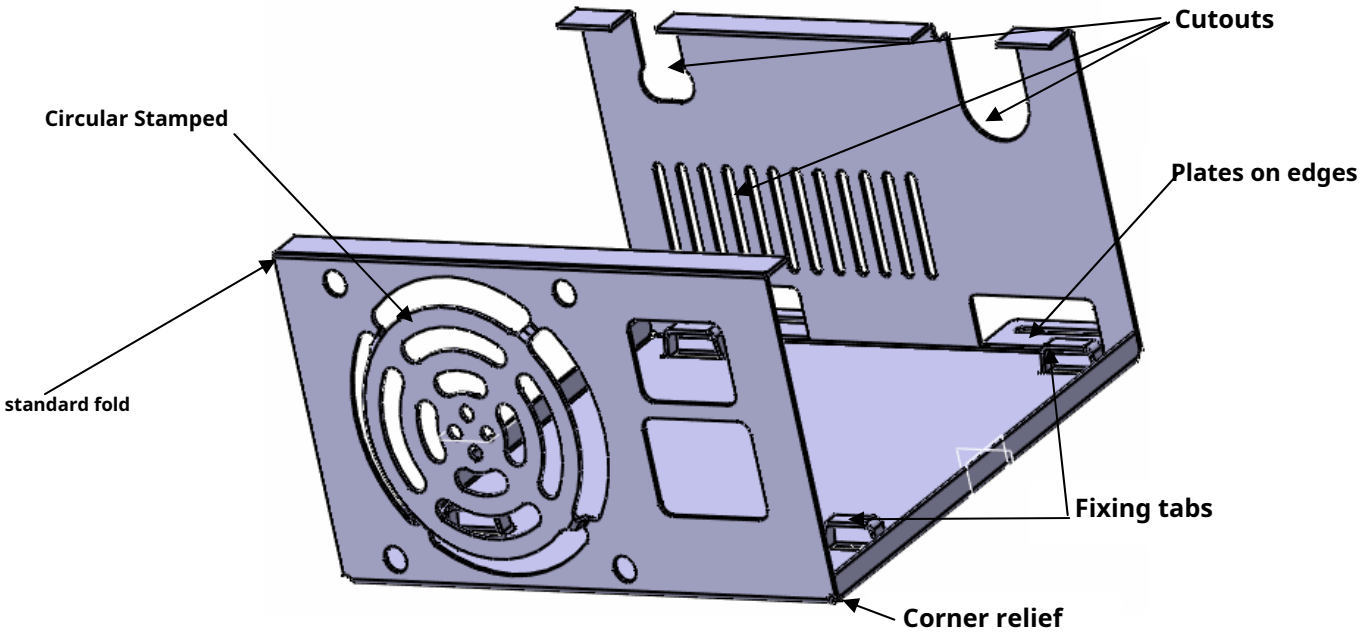
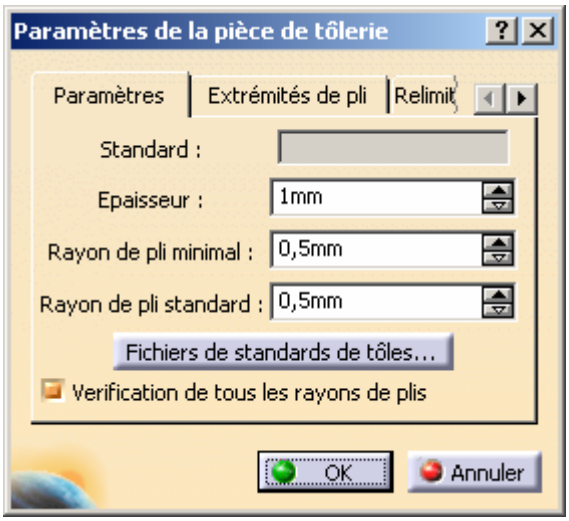
TP4
COMPUTER CASE
POWER BOX BASE

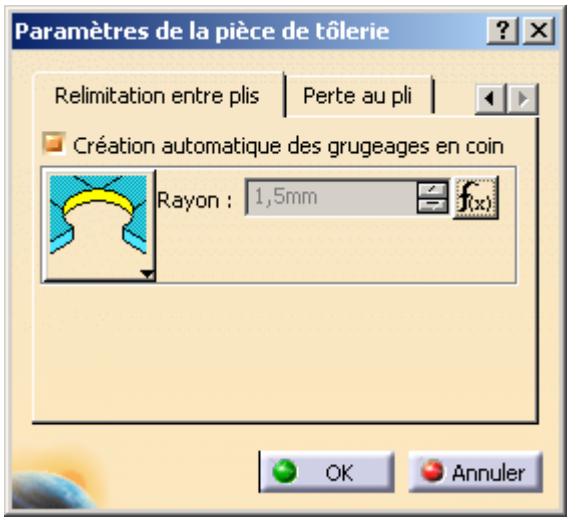


- Start the Sheet Metal module. 

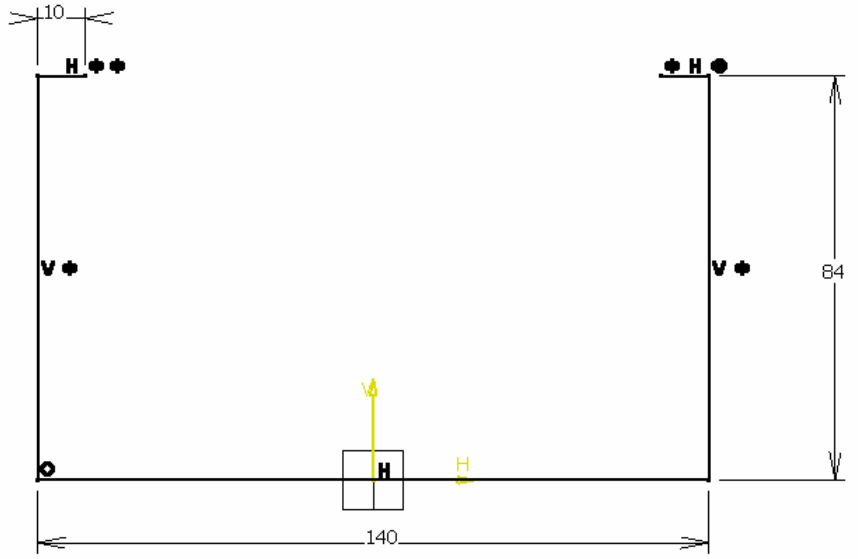
Before using the module, you must always start by defining the sheet metal parameters.

- Click on the settings icon  and fill in the following fields:



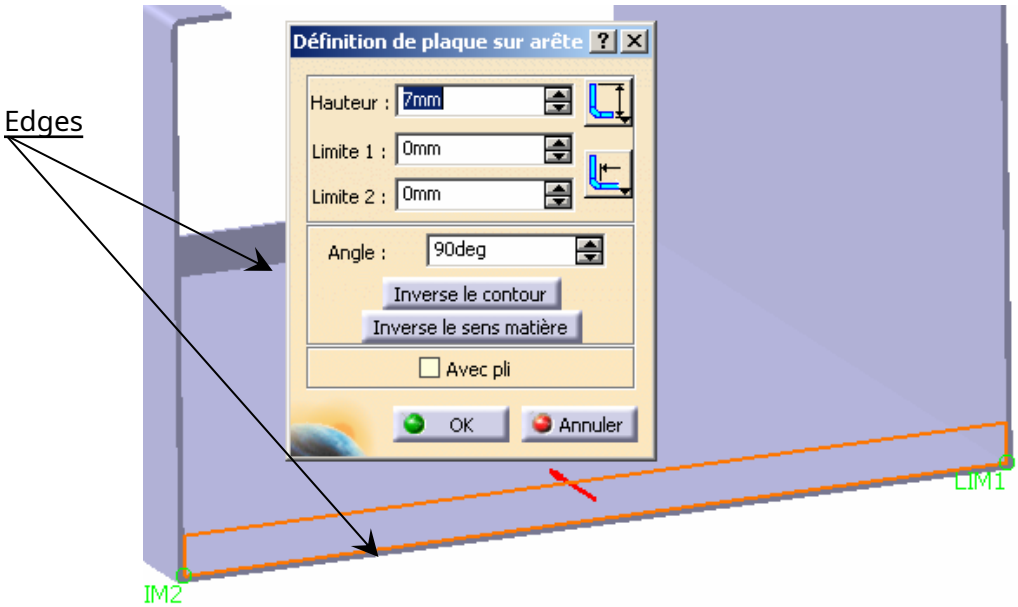


- Select the YZ plane.
- Sketch the following profile.

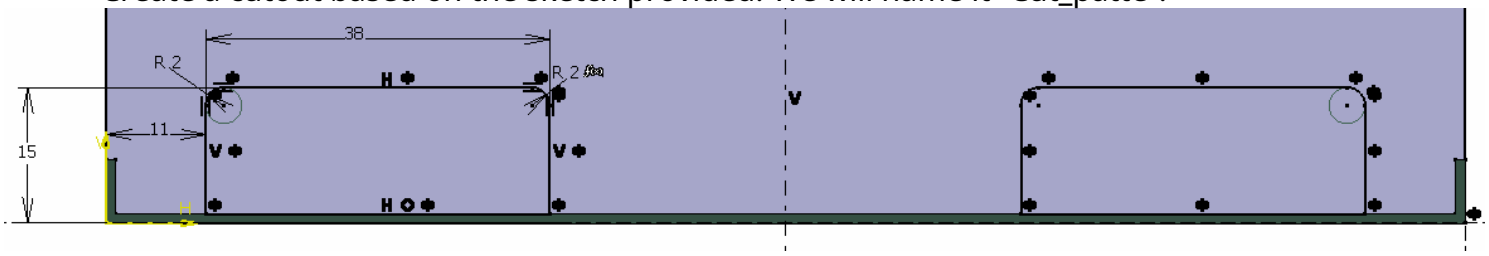


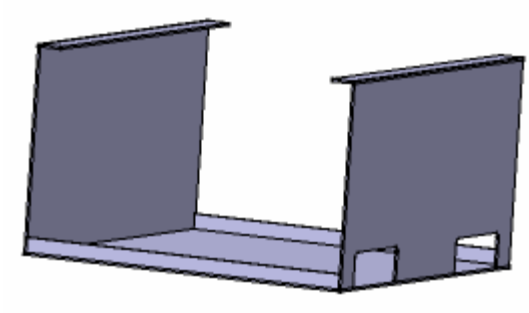
- Exit the sketch and click on the extrusion icon.

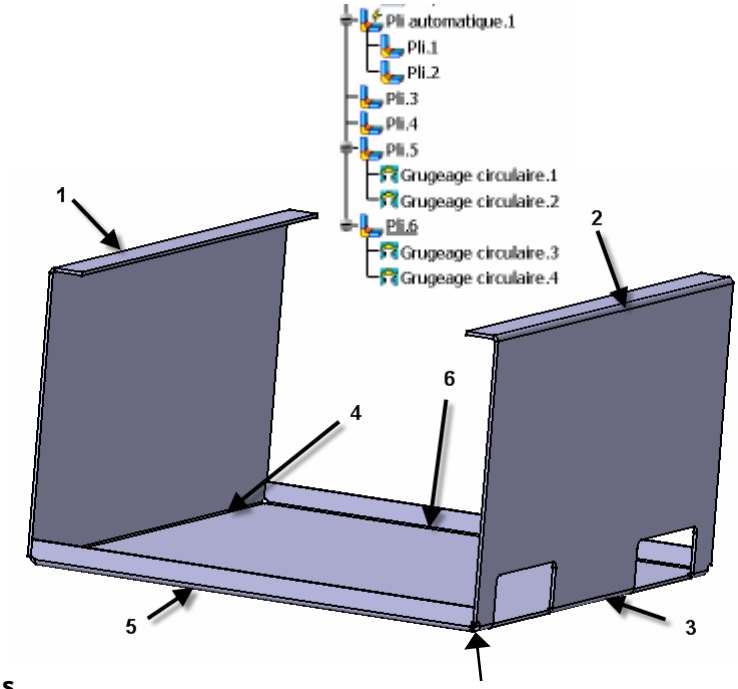
- Fill in a length type extrusion with a first limit of 150 mm.
- Define two edge plates with the following characteristics (see figure below).



- Create a cutout based on the sketch provided. We will name it “Cut_patte”.







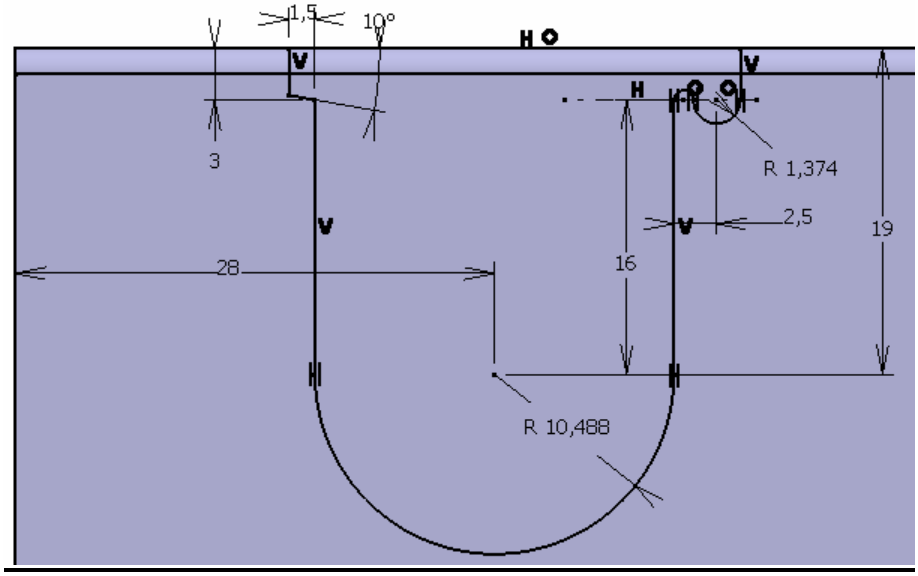
Automatic relief

Realization of folds

- Make automatic folds by clicking on 
  Folds 1 and 2 are formed
- Make folds 3, 4, 5 and 6 by clicking on 
  Attention you must make folds 5 and 6 last.

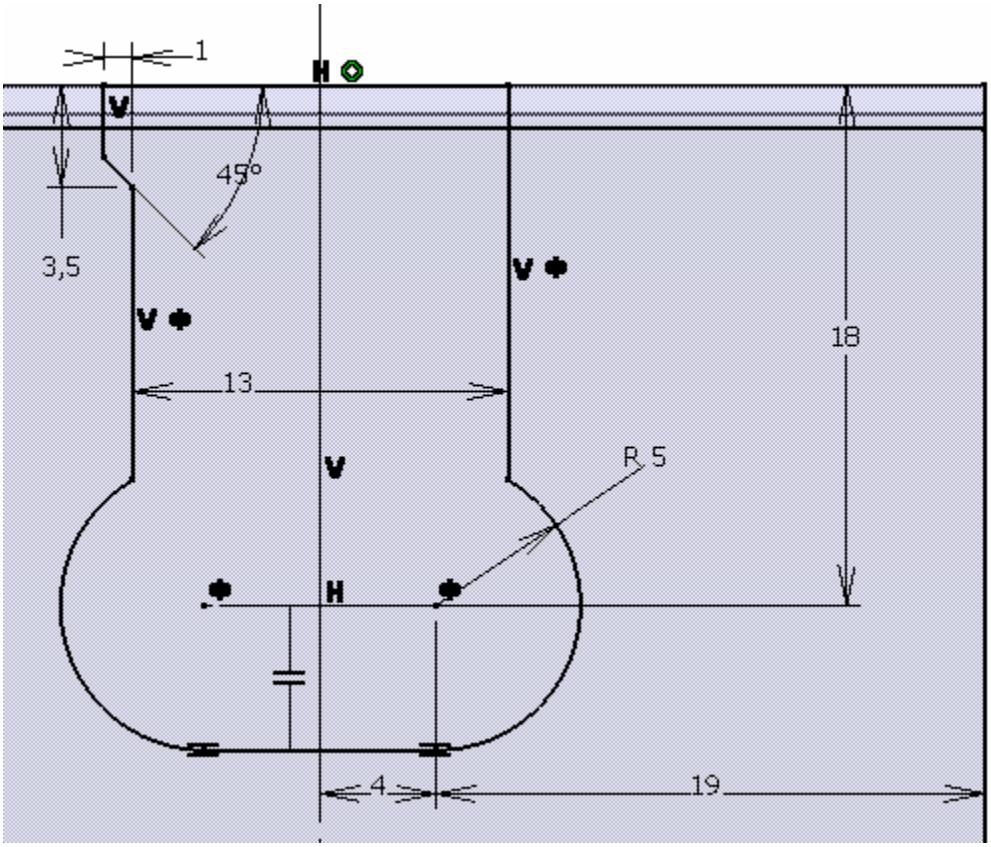
Realization of the passages for the 220V and 12V cords.

- To allow passage of the 220 V cords, make a cutout on the right side, based on the sketch below.

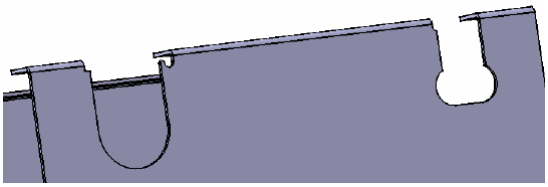


It will be called “Passage_cordon_220V”.

Similarly, to allow passage of the 12V cords, a cutout will be made based on the sketch below.

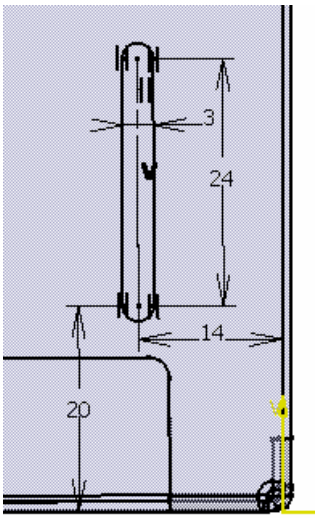


It will be called “Passage_cordon_12V”.

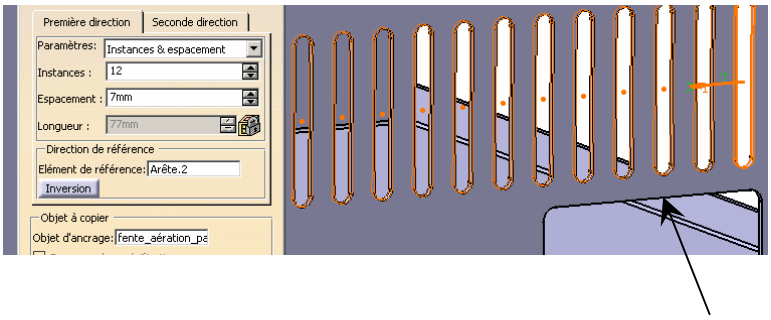


Creation of ventilation slots.

To do this, make a cut  on the side with the previous cutouts.
Its sketch is given by the figure below. We will name it “Slot_aeration_patron”.

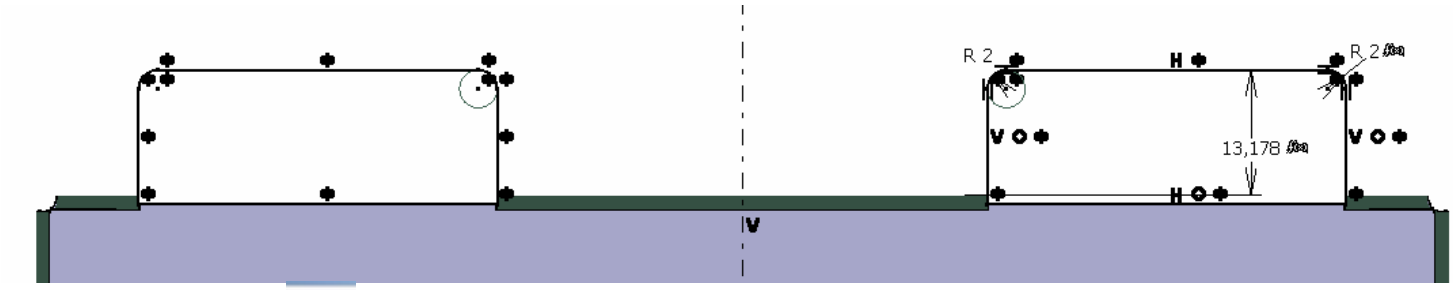


Reproduce by duplicating 12 instances the edge marked by the arrow. (boss

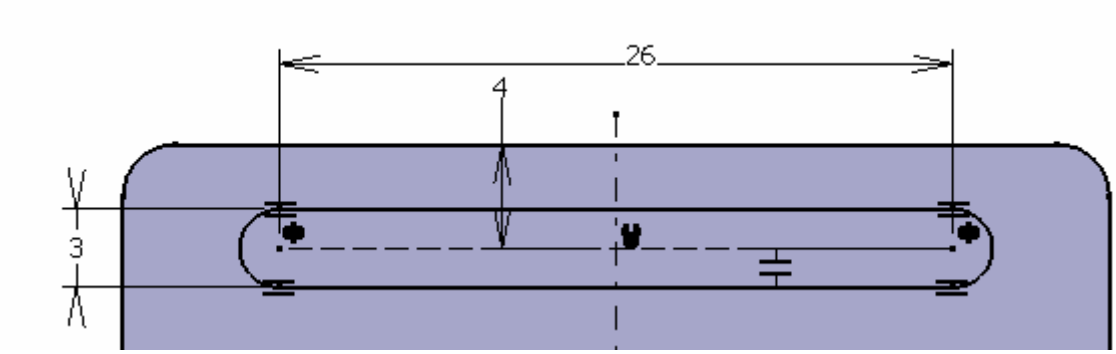


Realization of fixing brackets.

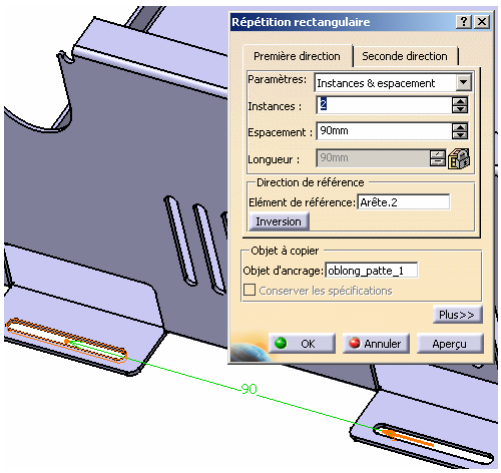
Create the brackets using the plate feature. next. Their definition is given by the sketch We will name the entity “Legs”.



Make a cut of the oblong for the passage of the screw. We will name the pattern “Oblong_patte_1”.

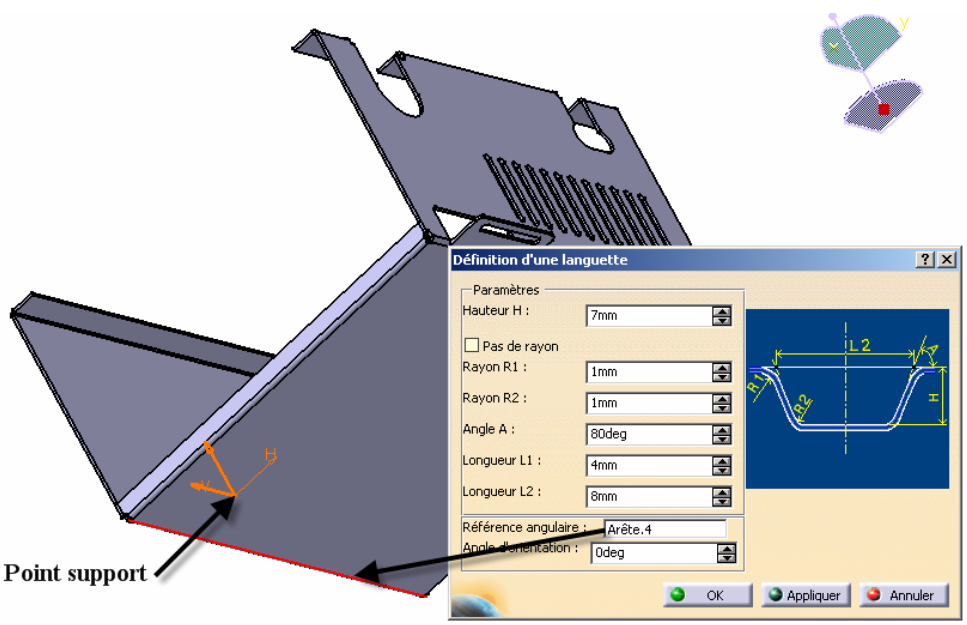


Duplicate the oblong for the second leg. We will name the entity “Oblong_patte_2”.

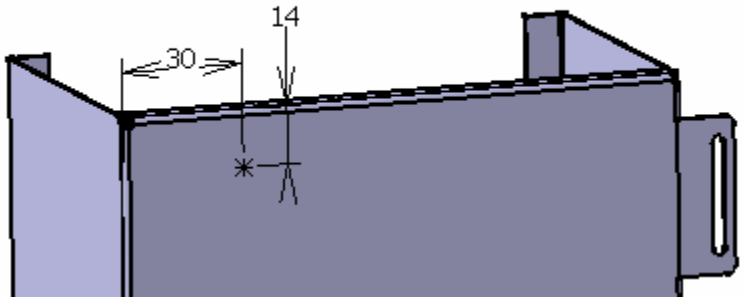


Realization of the supports of the printed circuit.

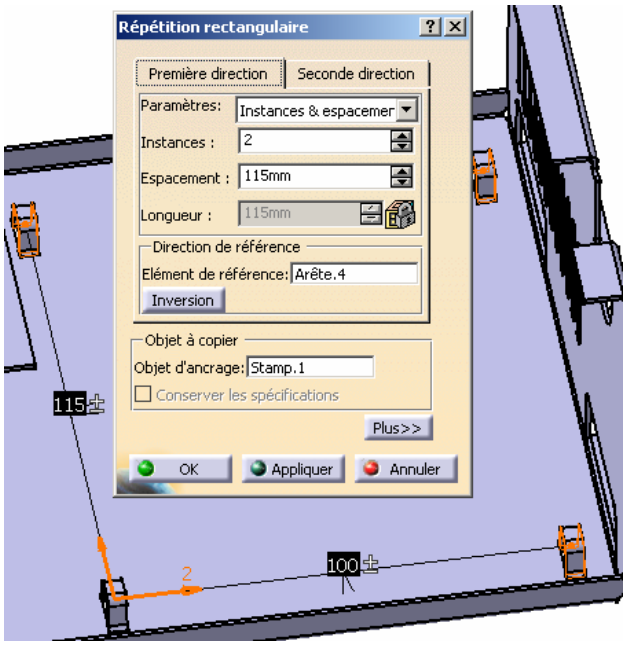
Define a tab will name  We it
“Support_circuit_patron”. click on the outer surface of the base of the case, in the area of the support point



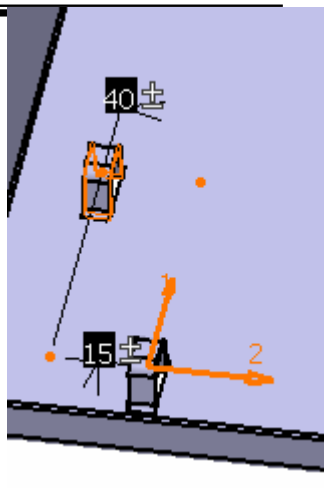
modify the tongue sketch to set the position of the support point according to the following position.



Duplicate the tab in 4 instances on both directions (H and V), with the following settings. We will name them “Support_circuit_duplication”.

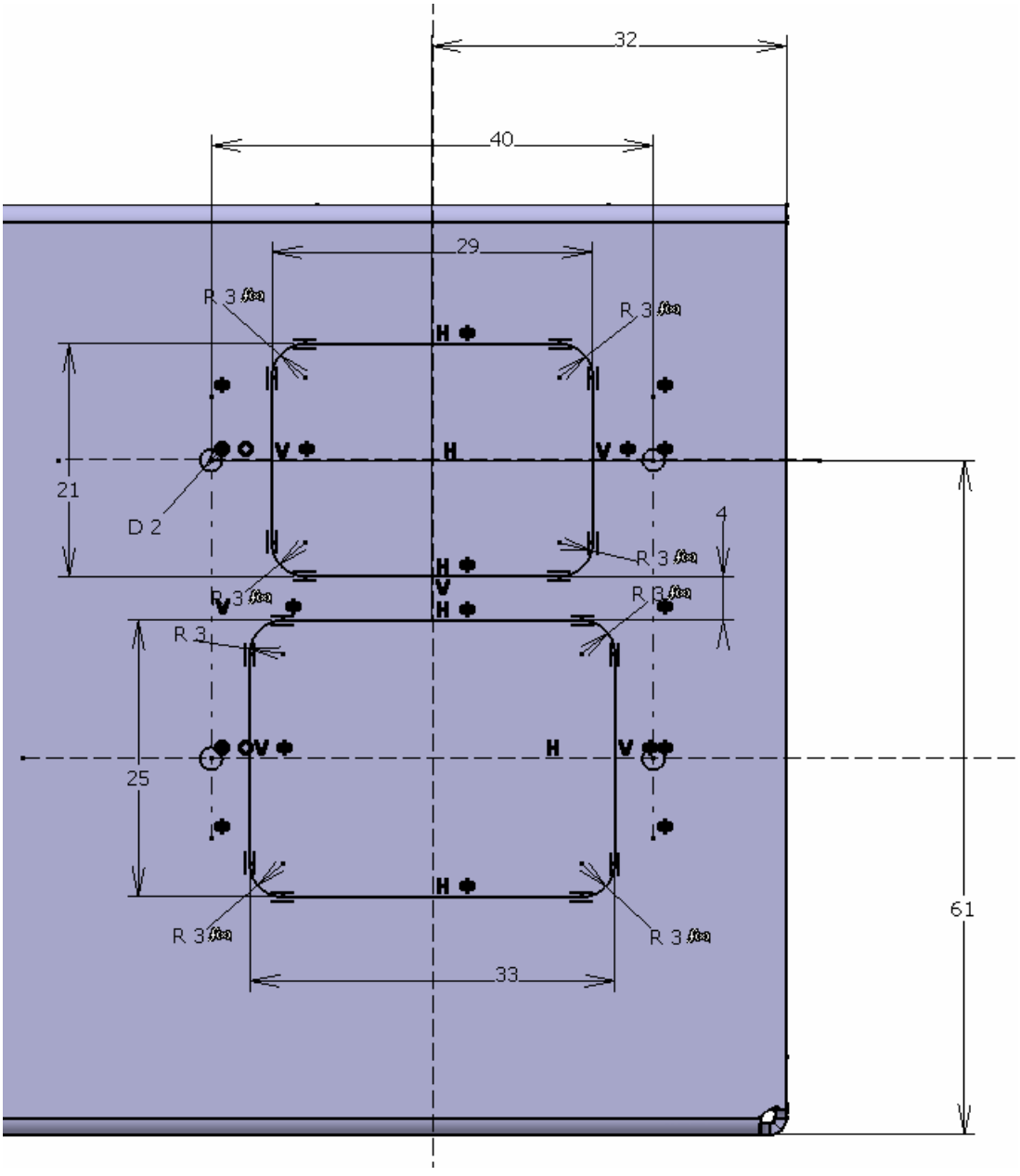


Add an additional mounting bracket. The figure below shows its situation. It will be called “Support_circuit_supplémentaire”.



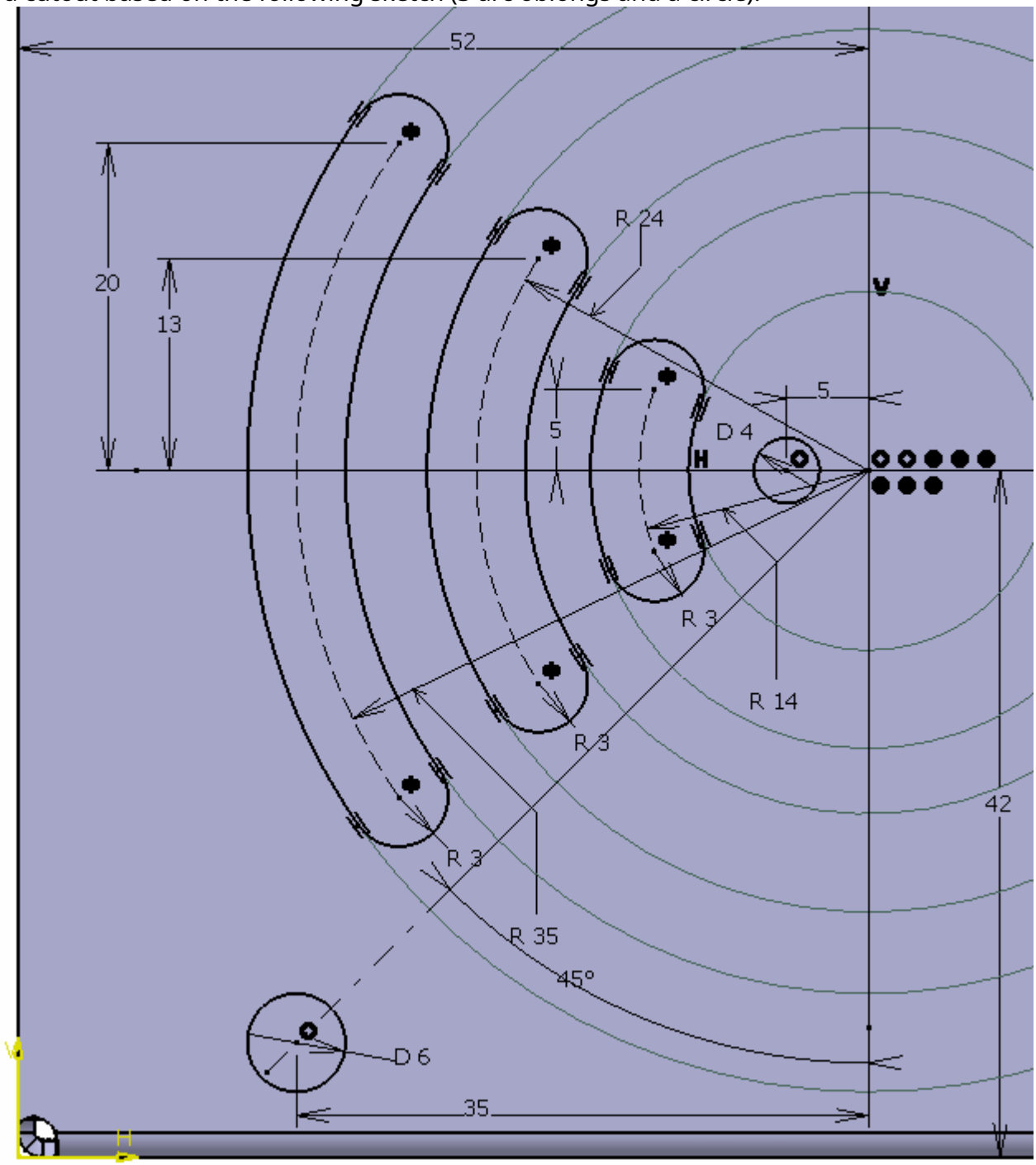
Creation of connector passage cutouts

Define the cutouts based on the following multi-contour sketch. We will name the entity “Passage_Connecteur_220V”.



Realization of the grille for the fan.

Create a cutout based on the following sketch (3 arc oblongs and a circle).

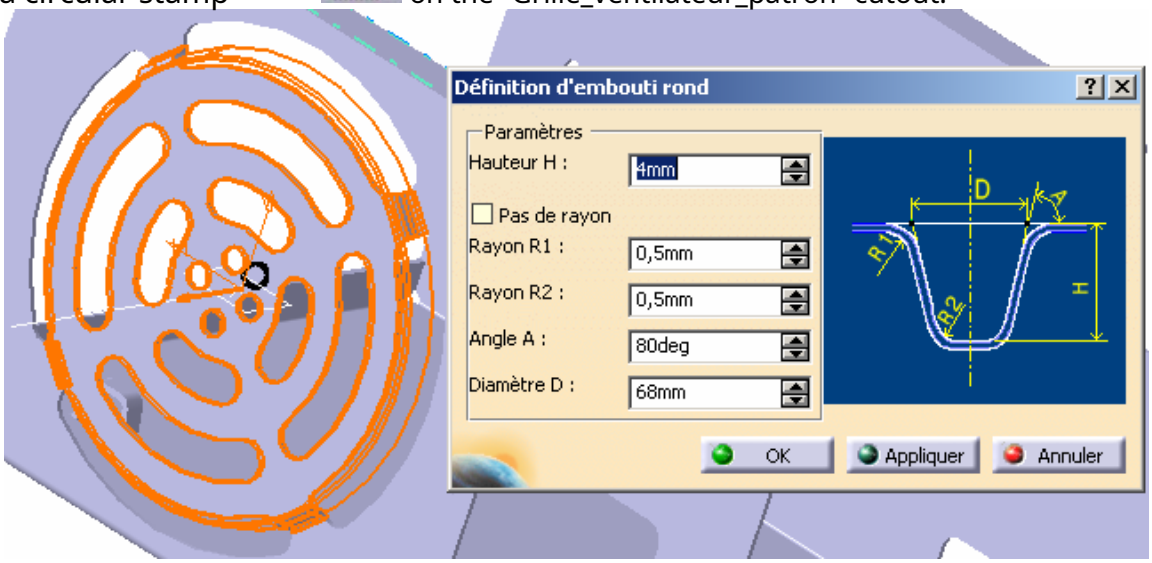


We will name the entity “Grille_ventilateur_patron”. If necessary define an axis (point + line) in 3D.

Duplicate by circular repetition the cutout.

The latter will be called “Grid_ventilation_duplication”.

Define a circular stamp  on the “Grille_ventilateur_patron” cutout.



Click on the “multiple view” icon  . The unfolded part appears in a second window.
Choose the command Window- Tile horizontally to show both windows.
Save your template as "Base_power_block".