Can GENIS
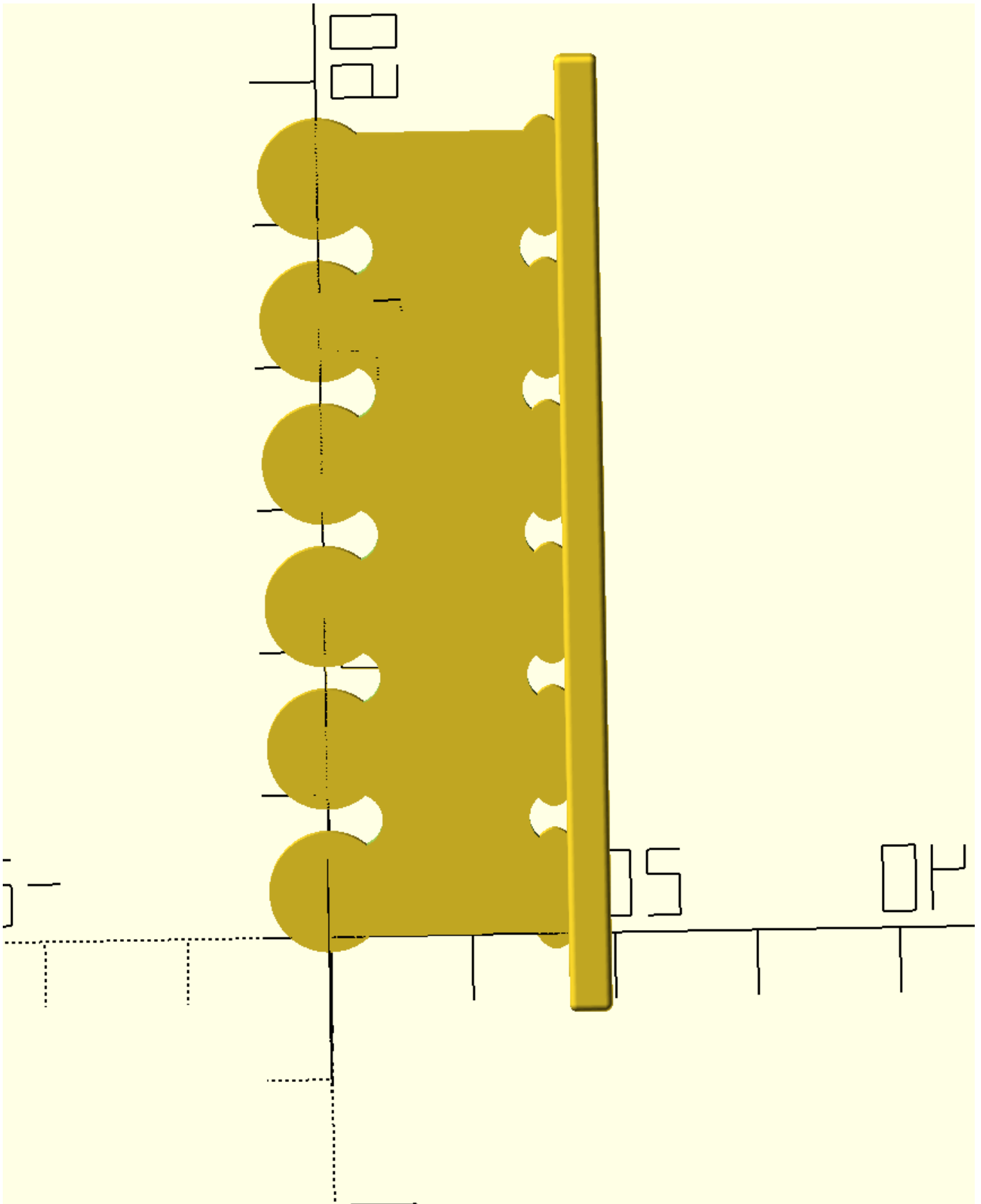
Objet 1 : Pour Organiser Les Cables

Il sert à organiser toutes les cables sur une table (capacité max : 5 cables).

Les Dimensions :

- *3.75 mm (diamètre maximale d'une cable)*
- *6.6 cm longueur*
- *1.8 cm largeur*
- *1.4 cm hauteur*

```
// Parameters
$fn = 150;
width = 18;
height = 12;
```

```
holes = 5;    // Holes per edge
diameter = 3.75;   // Hole diameter
separation = 6.25; // Separation between holes
edge = 4.2;   // Edge roundness
cube_size = [66, 2, 18];    // Dimensions of the cube
edge_radius = 0.5;    // Radius of the rounded edges


union(){
  difference(){

    cube([diameter*holes+separation*(holes+1),width,height]);

    // Loop to create rounded holes on the first edge
    for(i=[0:holes-1]){
     hull(){
      translate([(separation+diameter/2)+(separation+diameter)*i,0.1+diameter/2,-0.05])
        cylinder(r=diameter/2, h=height+0.1); // Create the first cylinder for each hole


      translate([(separation+diameter/2)+(separation+diameter)*i,-diameter/3,-0.05])
        cylinder(r=diameter/2, h=height+0.1); // Create the second cylinder to be connected with the first to
create the rounded hole
     }
    }


    // Loop to create rounded holes on the opposite edge
    for(i=[0:holes-1]){
     hull(){
      translate([(separation+diameter/2)+(separation+diameter)*i, width-diameter/2-0.1, -0.05])
        cylinder(r=diameter/2, h=height+0.1); // Create the first cylinder for each hole


      translate([(separation+diameter/2)+(separation+diameter)*i,width+diameter/3,-0.05])
        cylinder(r=diameter/2, h=height+0.1); // Create the second cylinder to be connected with the first to
create the rounded hole
     }
    }


  }

    // Adding edges to one side
    for(i=[0:holes]){
```

```
        translate([separation/2+(diameter+separation)*i,0,0])
            cylinder(r=edge, h=height);
    }


    // Adding edges to the opposite side (cut into half)
    for (i = [0 : holes]) {
        translate([separation / 2 + (diameter + separation) * i, width, 0])
        translate([0, -edge / 2, 0])    // Offset the position for half-cut edges
            scale([1, 0.5, 1])  // Scale the edge in the Y direction
                cylinder(r = edge, h = height);
    }


    translate([-5,17.25,-3])
    minkowski() {
    cube(cube_size, center = false);
    sphere(r = edge_radius);
    }
}
```
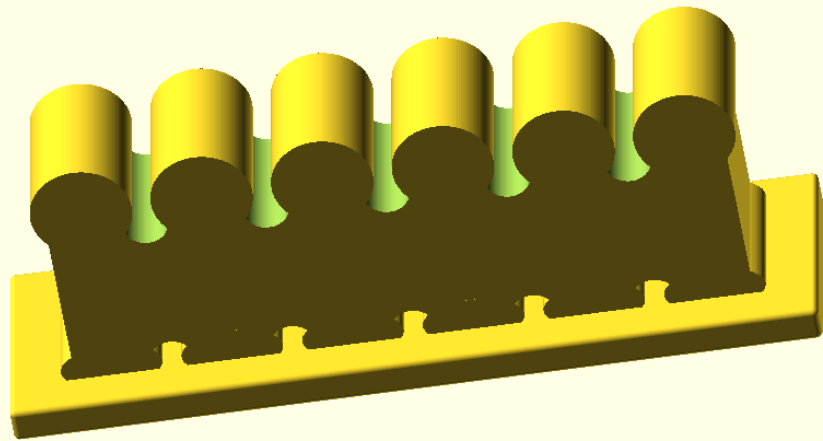
Pour imprimer :

- Importer le fichier STL dans PrusaSlicer.
- Ajouter des supports (option partout).
- Exporter le fichier dans une clé USB.
- Attendre ~45 mn