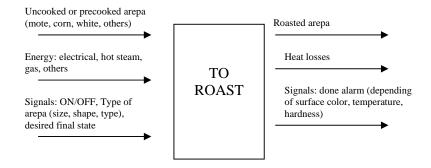
## **TASK 02**

1. Describe the properties of all the operands in the initial and final state:

Operand		
Туре	State	
	In-1	Out-2
Material	<ul> <li>Type of arepa (mote, corn, white, others)</li> <li>Initial state: uncooked, precooked</li> </ul>	<ul> <li>Cooked Arepa</li> <li>Final state: tosted, medium, soft</li> </ul>
Energy	<ul> <li>resistances</li> <li>forced air</li> <li>contact</li> <li>infrareds to gas</li> </ul>	Heat
Information	Temperature In (frozen or environment temperature)     Units In     Energy consumption in/unit     Weight in/unit	Temperature Out Units out Energy consumption out/unit Weight out/unit

- 2. Create the structural function:
- Find the general function of the "Arepa toaster"
- Find partial functions on which the general function can be divided.

## Black Box:



## **Partial functions**

- I'm going to roast an arepa
- Select number of units
- Turn On the arepa toaster
- Select type of arepa (mote, yellow, white, others)
- Select final state of the arepa
- Eject arepa holder
- Put arepa on holder
- Insert arepa and holder inside oven
- Scan the temperature of the surface

- Heat source turns On depending of temperature of the surface
- The roaster must calculate the time depending of input information
- If the information captured by the sensors is equal to the set point, the heater source turns Off
- Activate done alarm
- Holder is ejected
- Remove arepa from holder
- Clean the holder
- Insert holder back
- Turn Off the system

