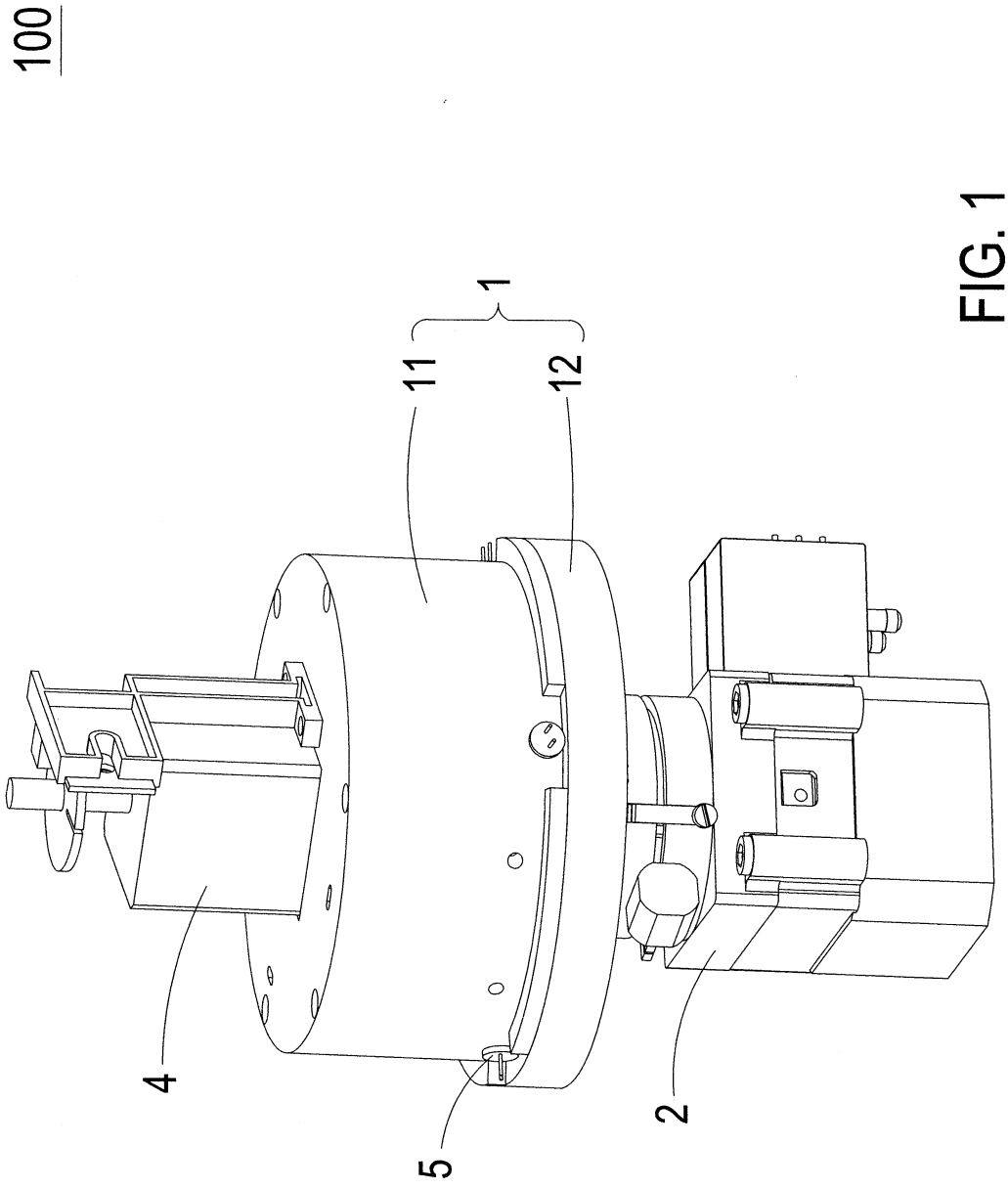


FIG. 1

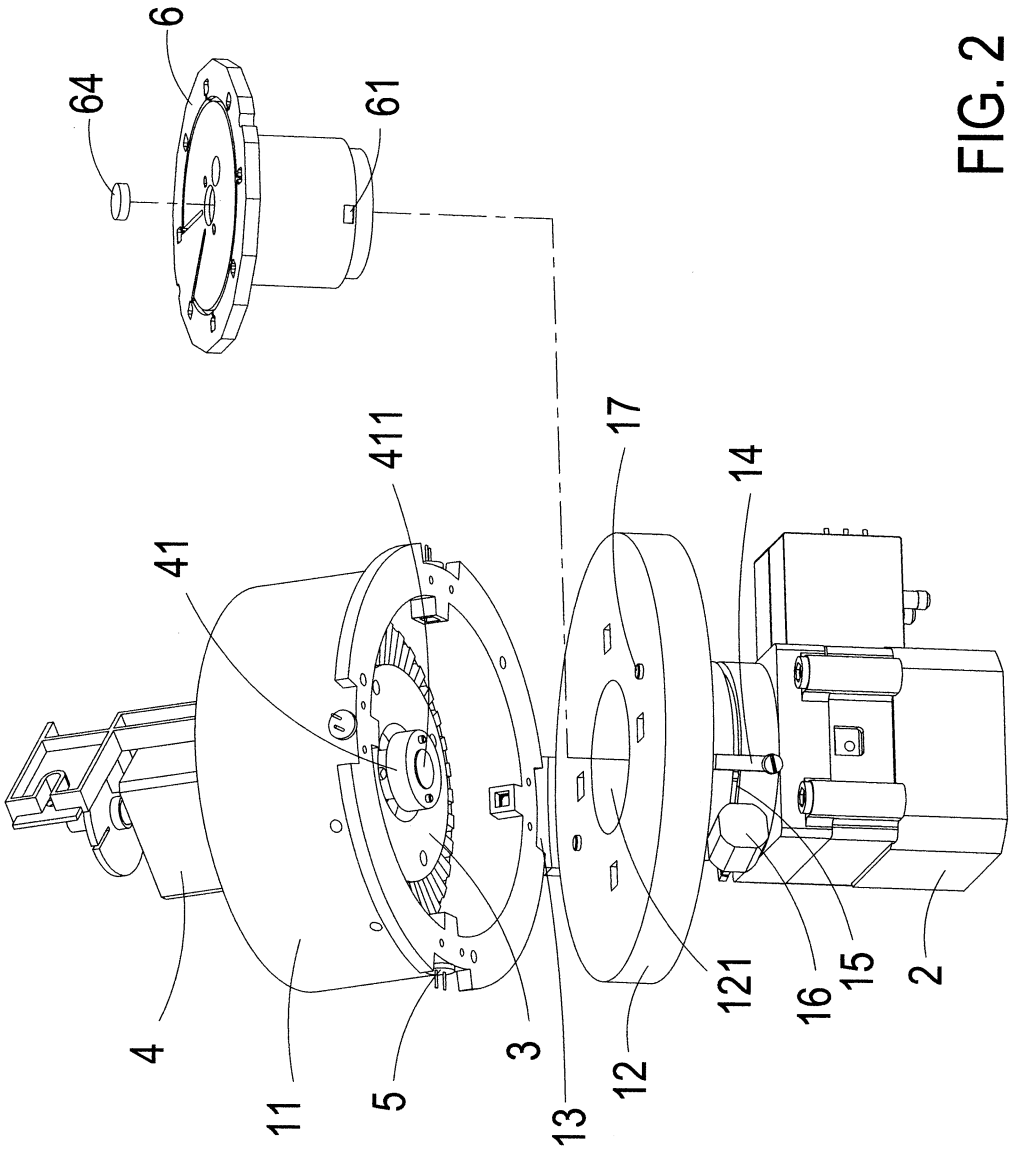


FIG. 2

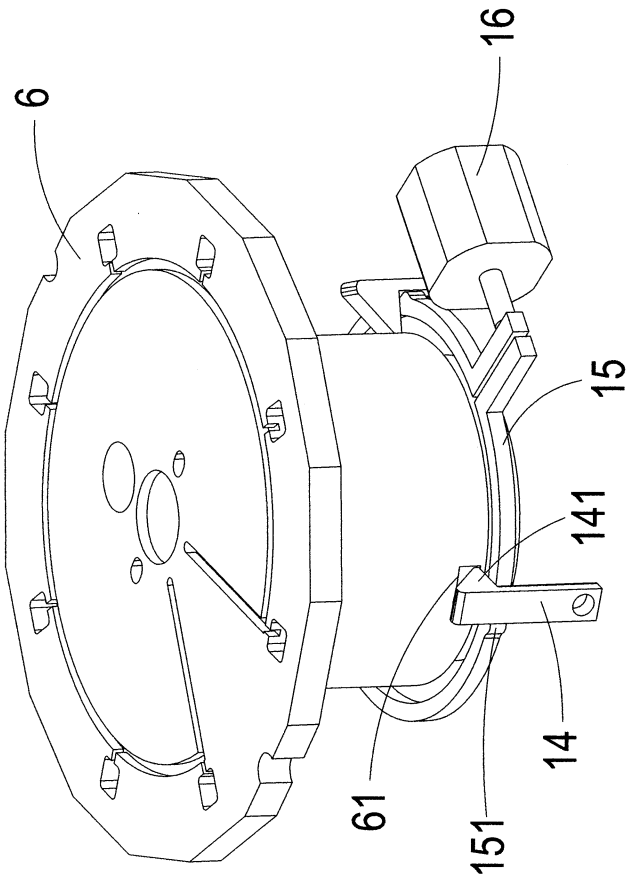


FIG. 3

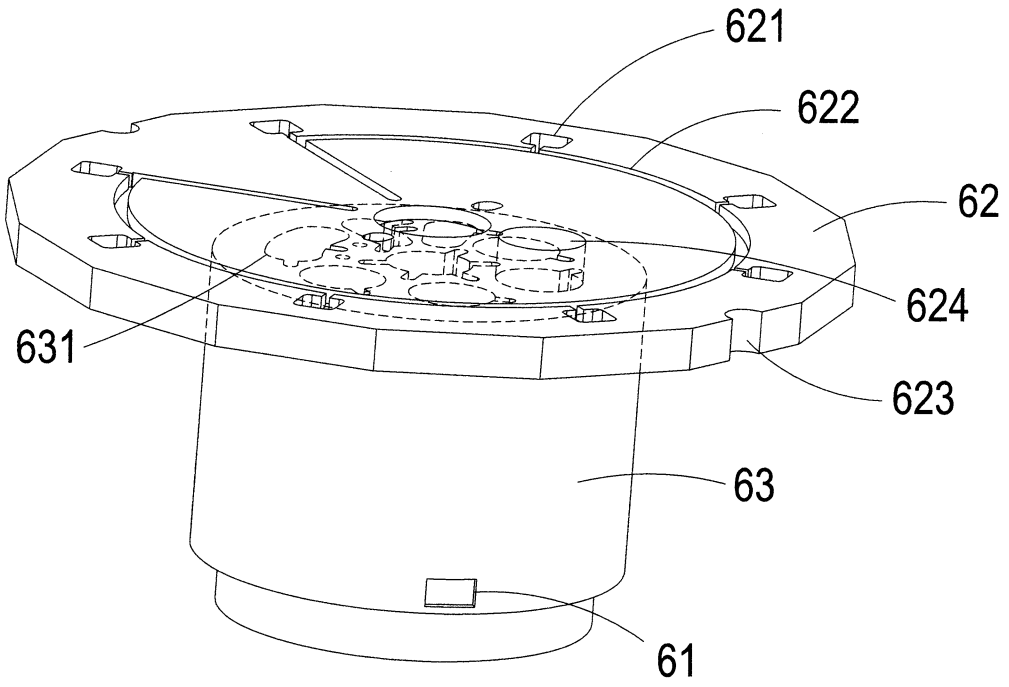


FIG. 4

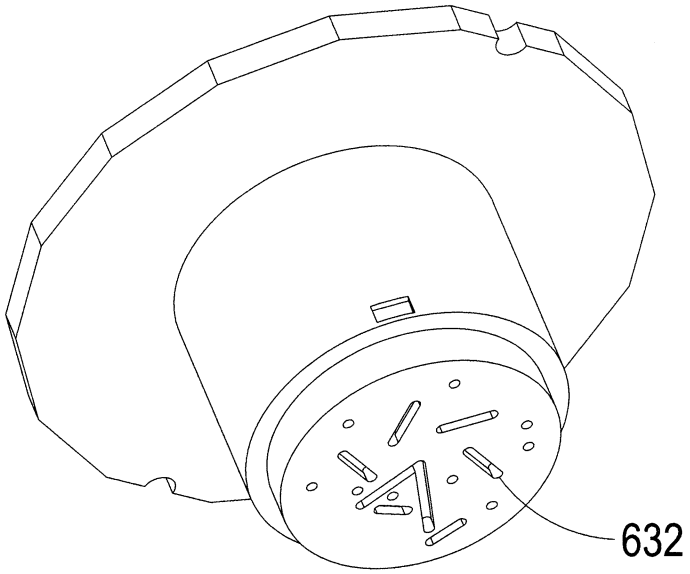


FIG. 5

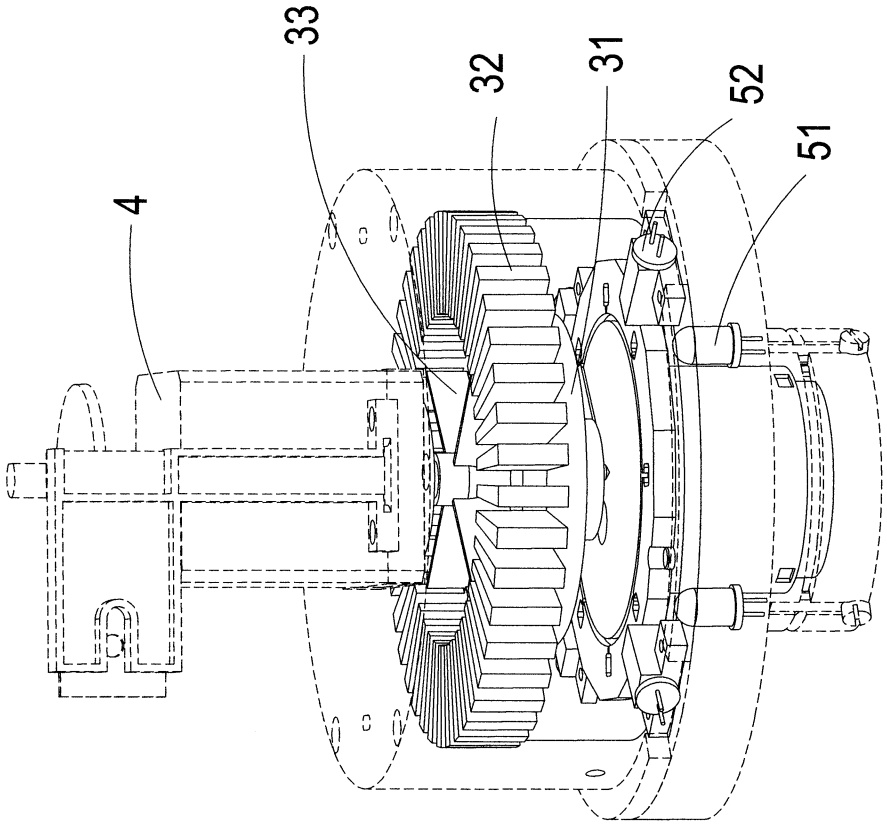


FIG. 6

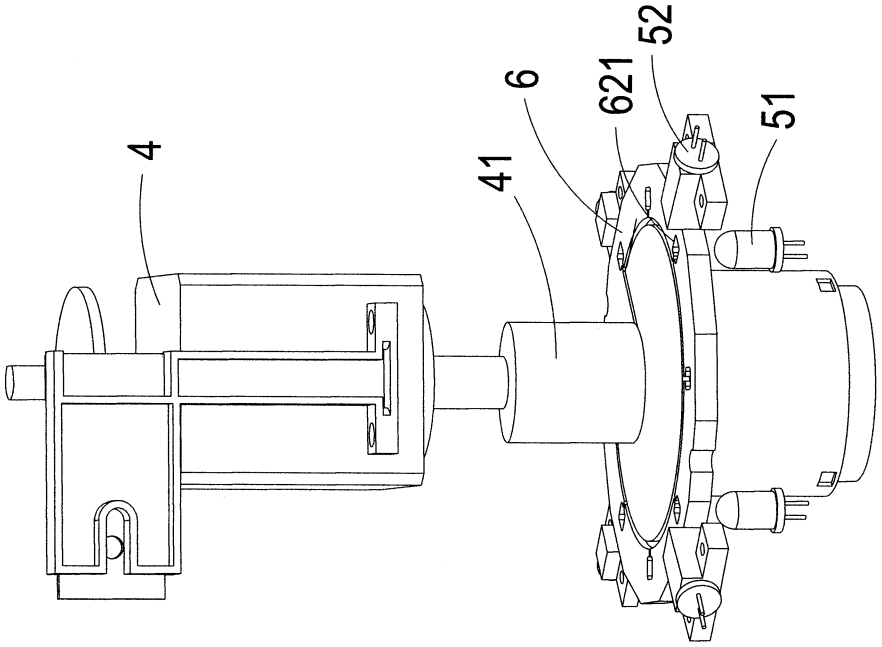


FIG. 7

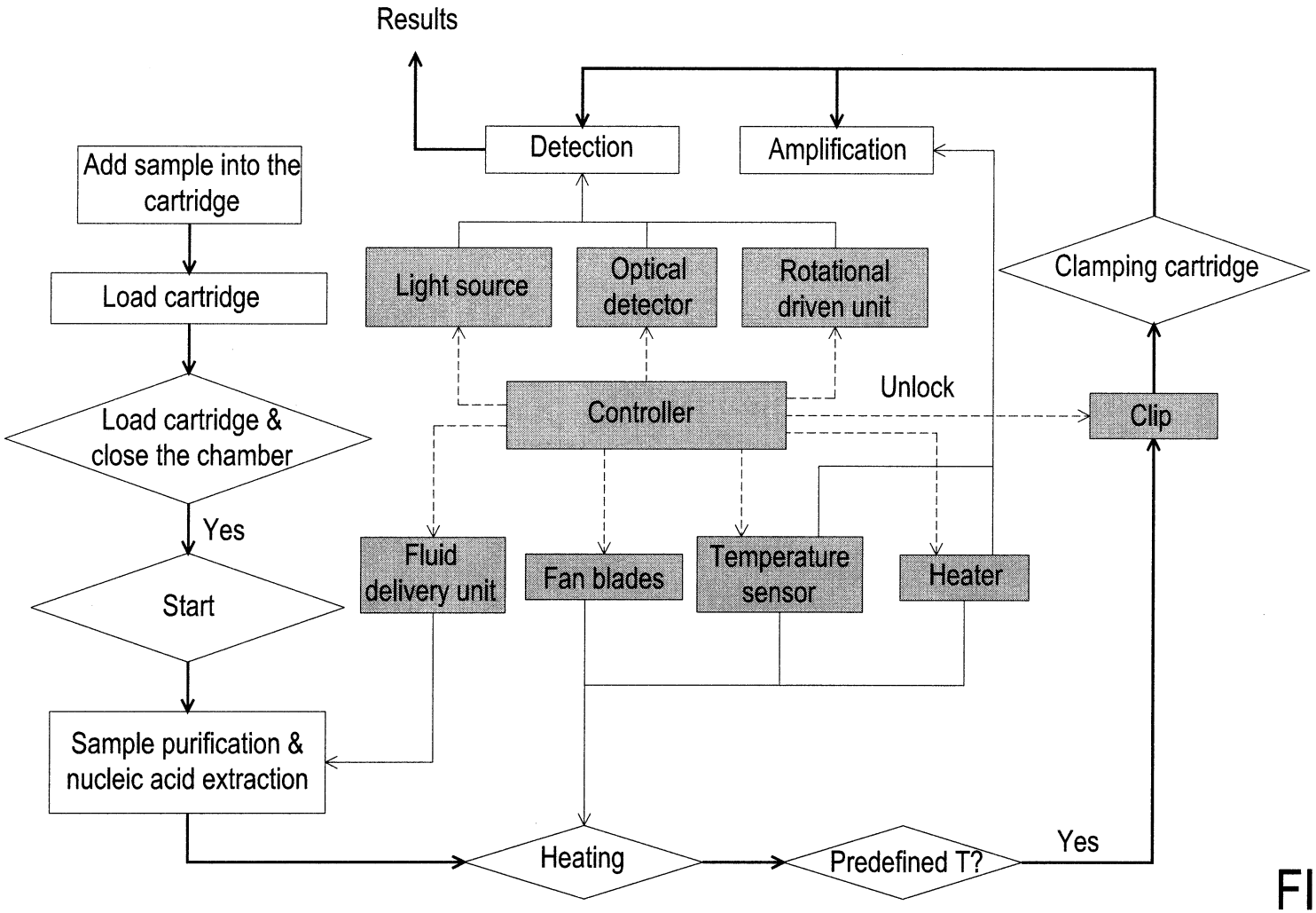

Results
Detection
Amplification
Add sample into the cartridge
Load cartridge
Light source
Optical detector
Rotational driven unit
Clamping cartridge
Load cartridge & close the chamber
Controller
Unlock
Clip
Yes
Fluid delivery unit
Fan blades
Temperature sensor
Heater
Start
Sample purification & nucleic acid extraction
Heating
Predefined T?
Yes

FIG. 8