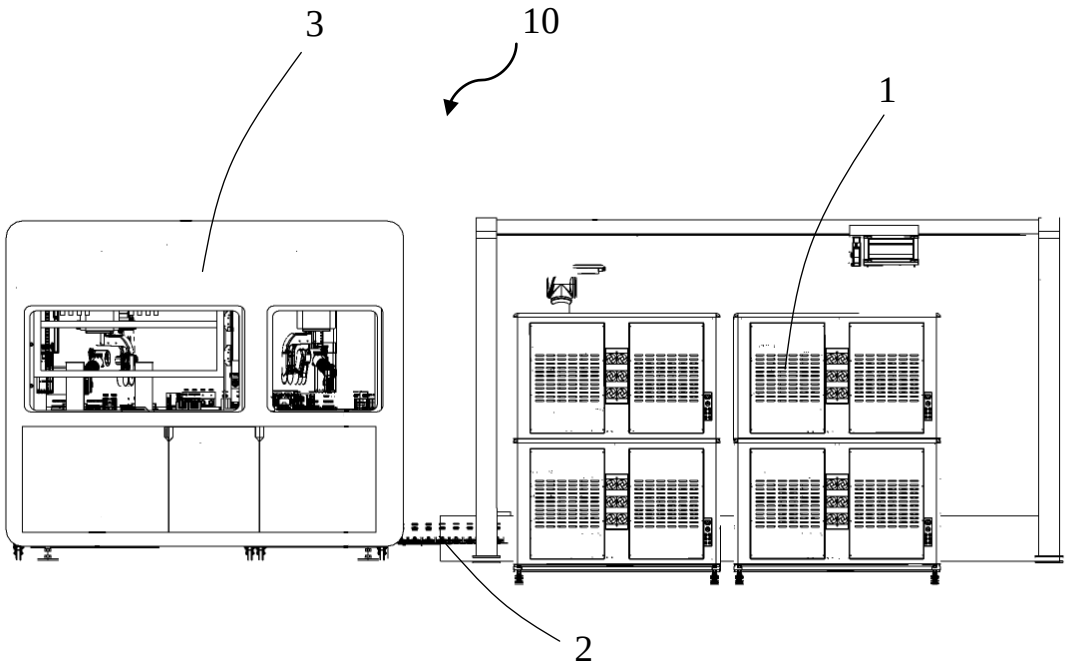


Fig.1

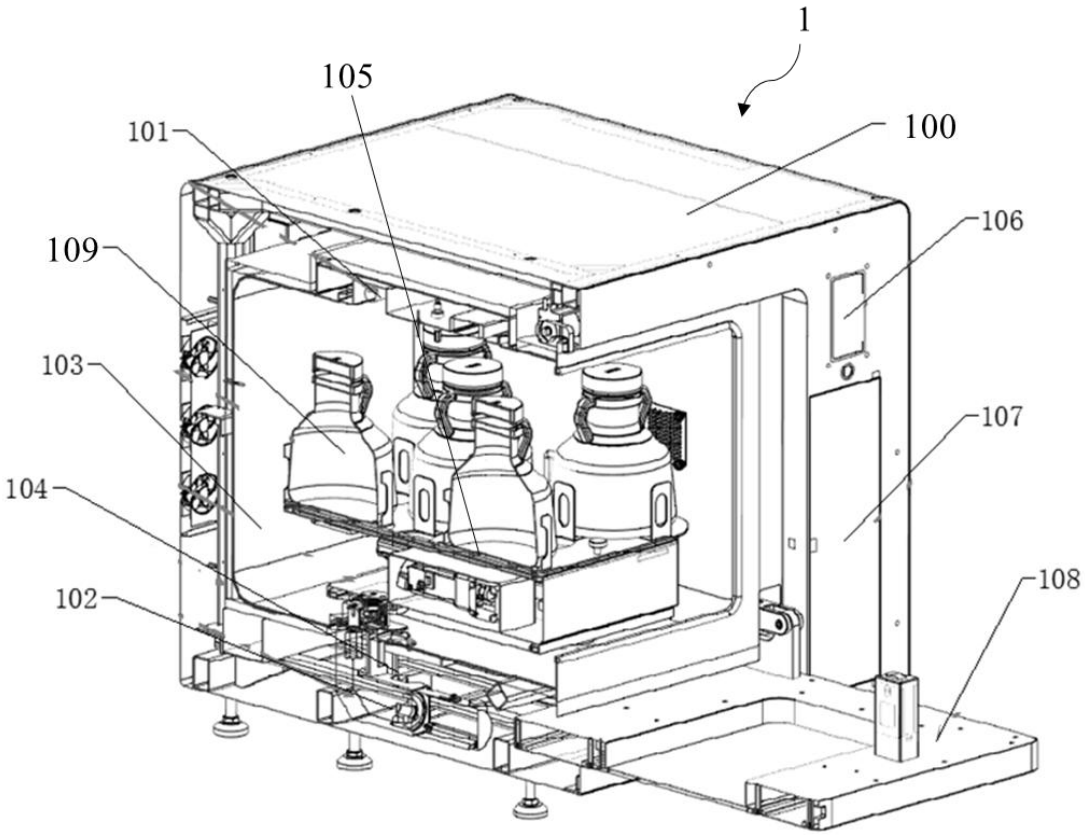


Fig.2

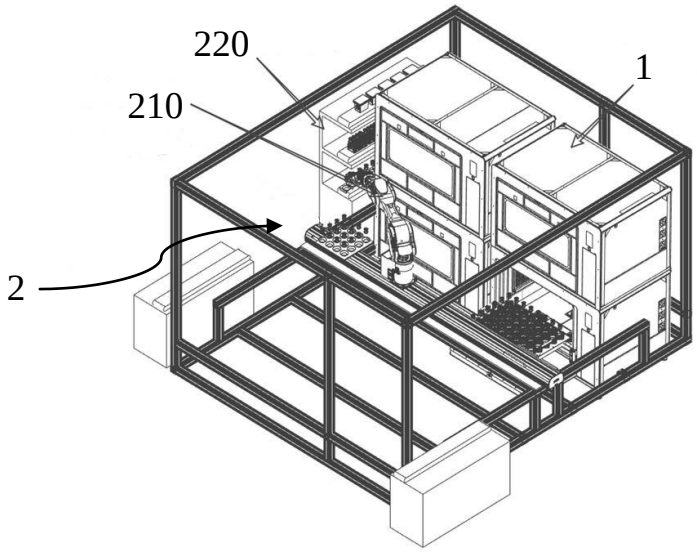


Fig.3

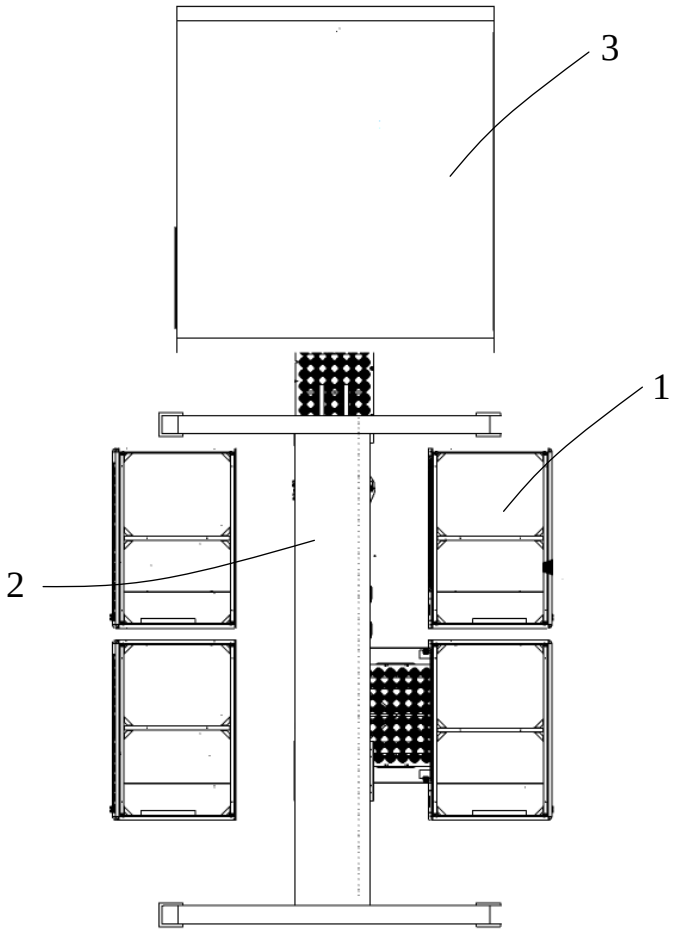


Fig.4

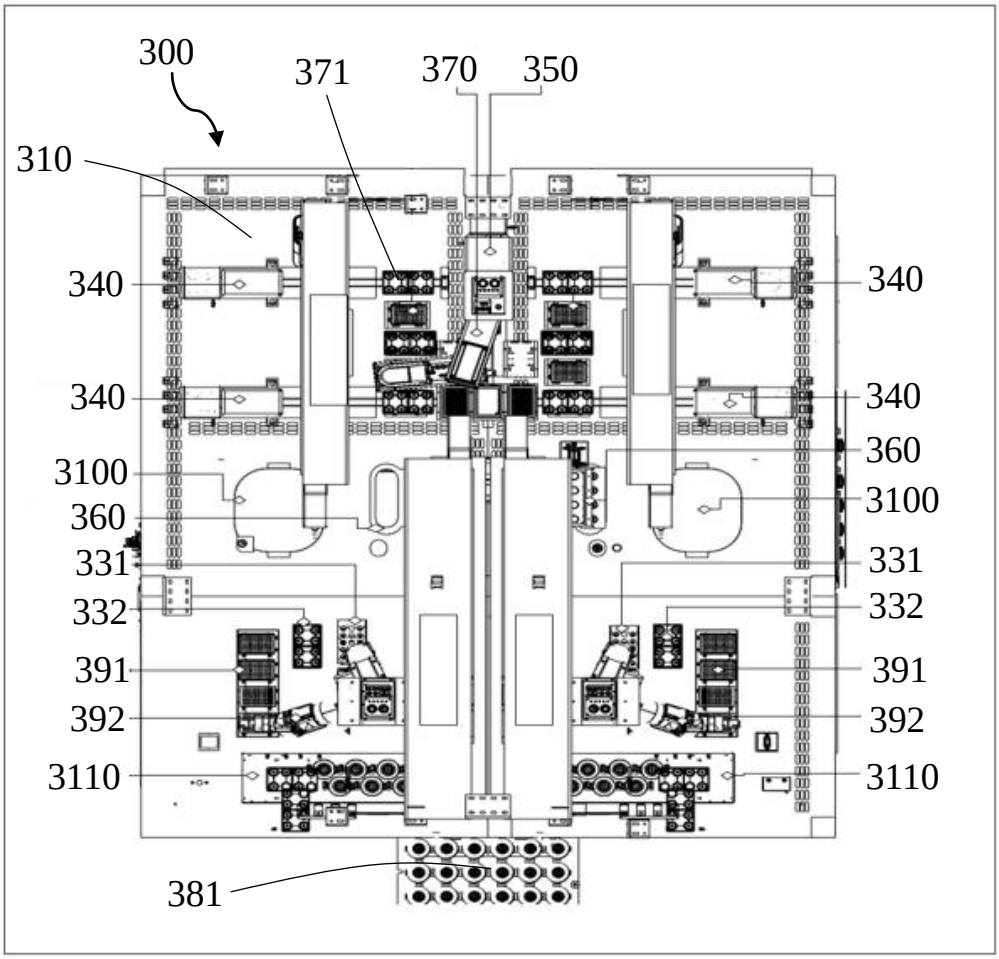

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Fig.5

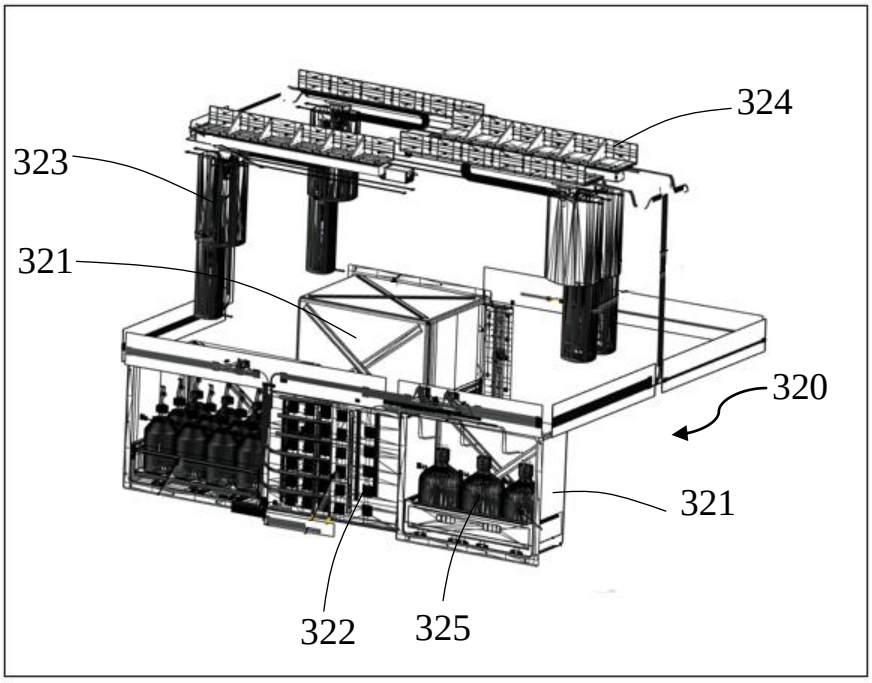

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Fig.6

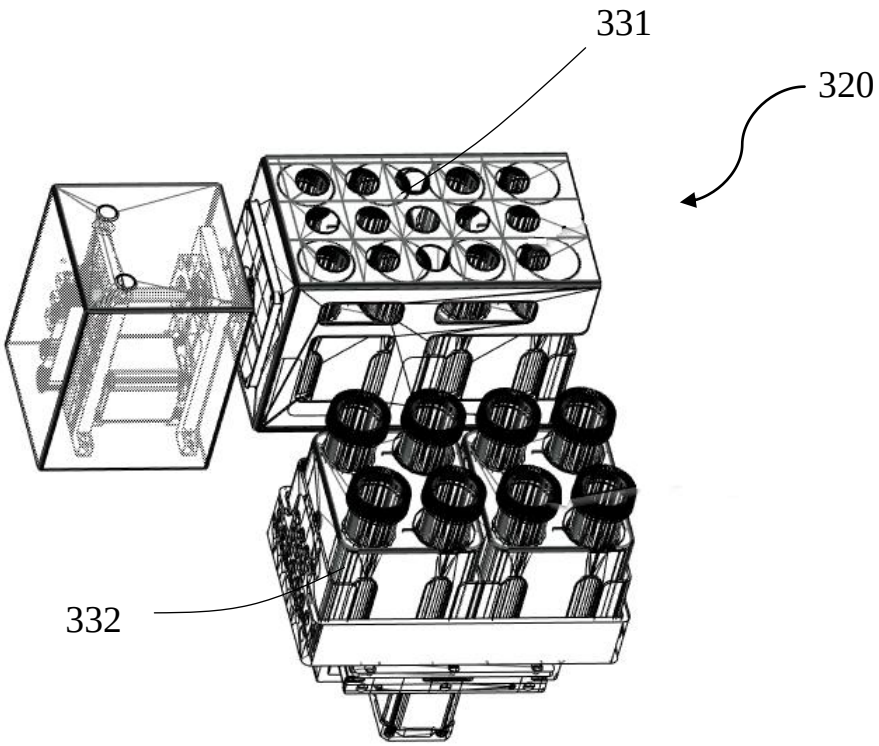


Fig.7

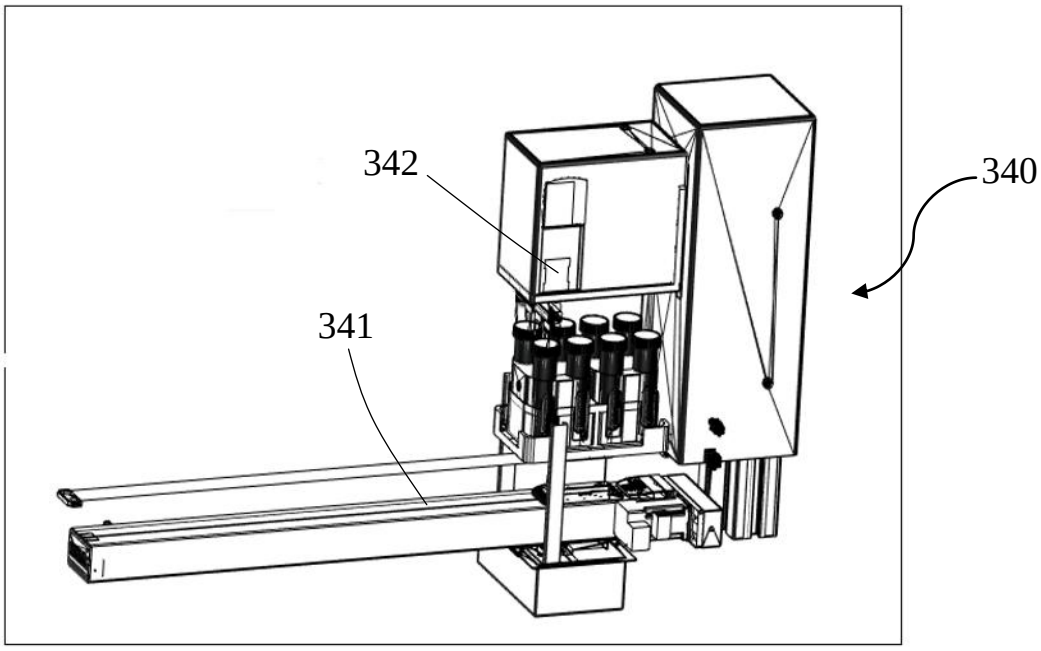


Fig.8

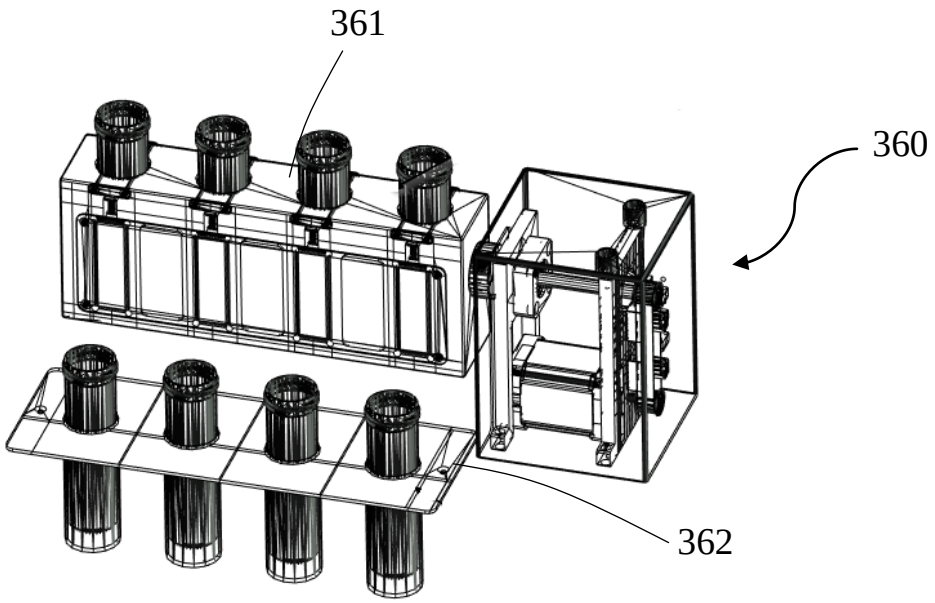


Fig.9

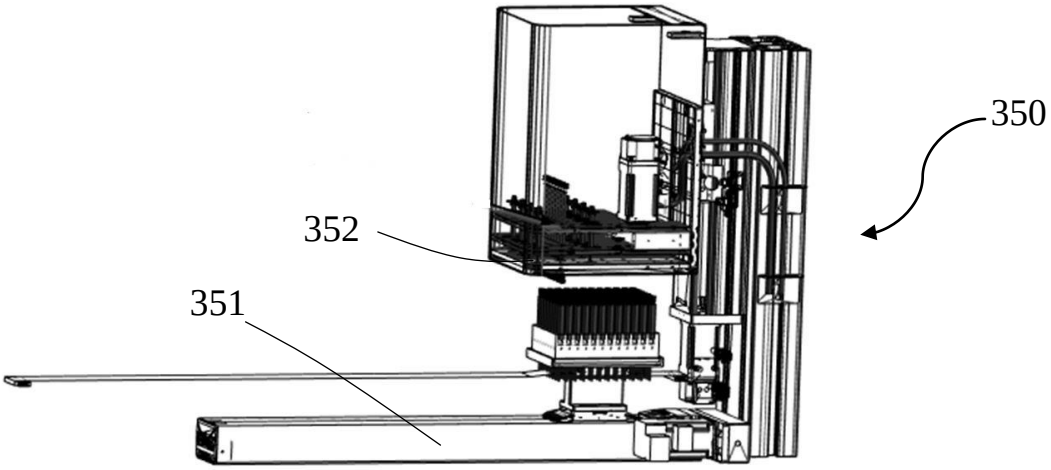


Fig.10

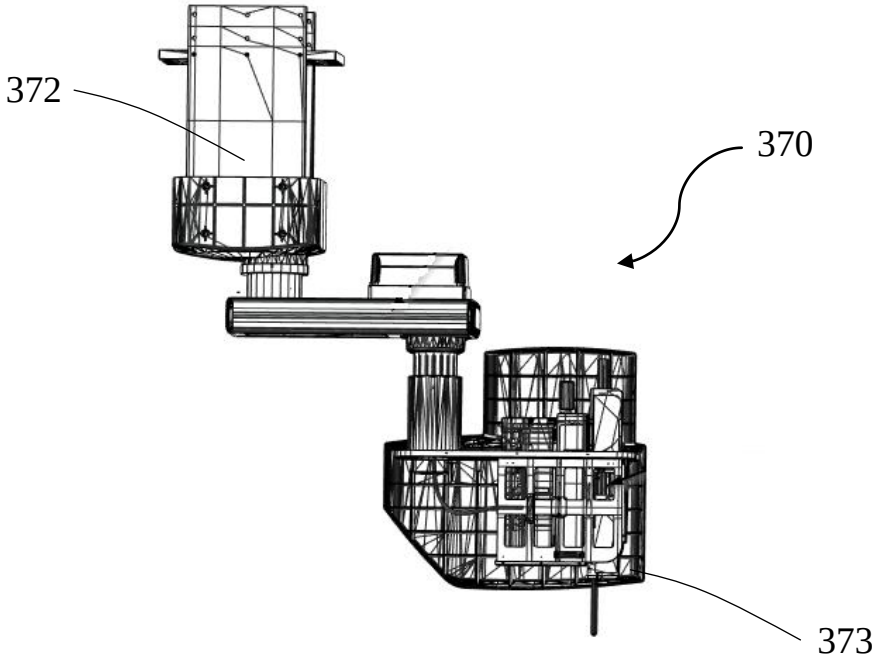


Fig.11

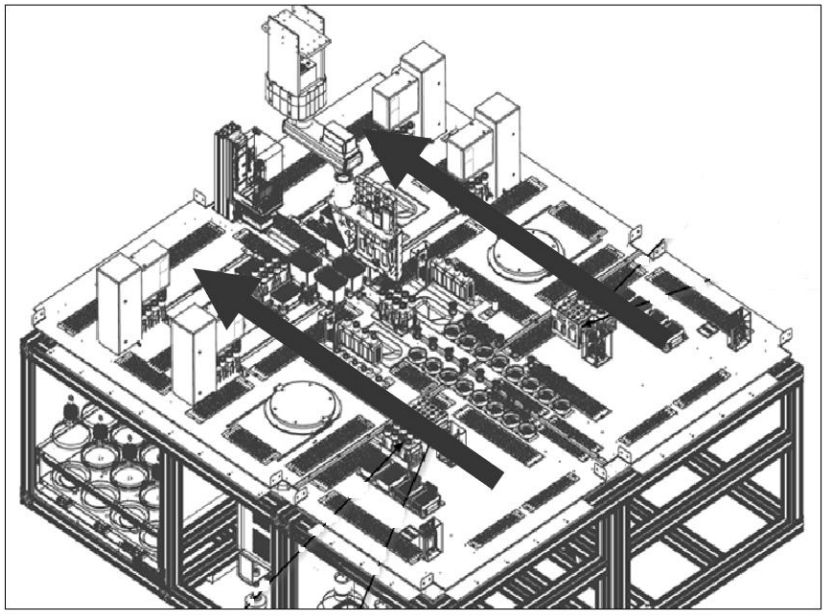


Fig.12

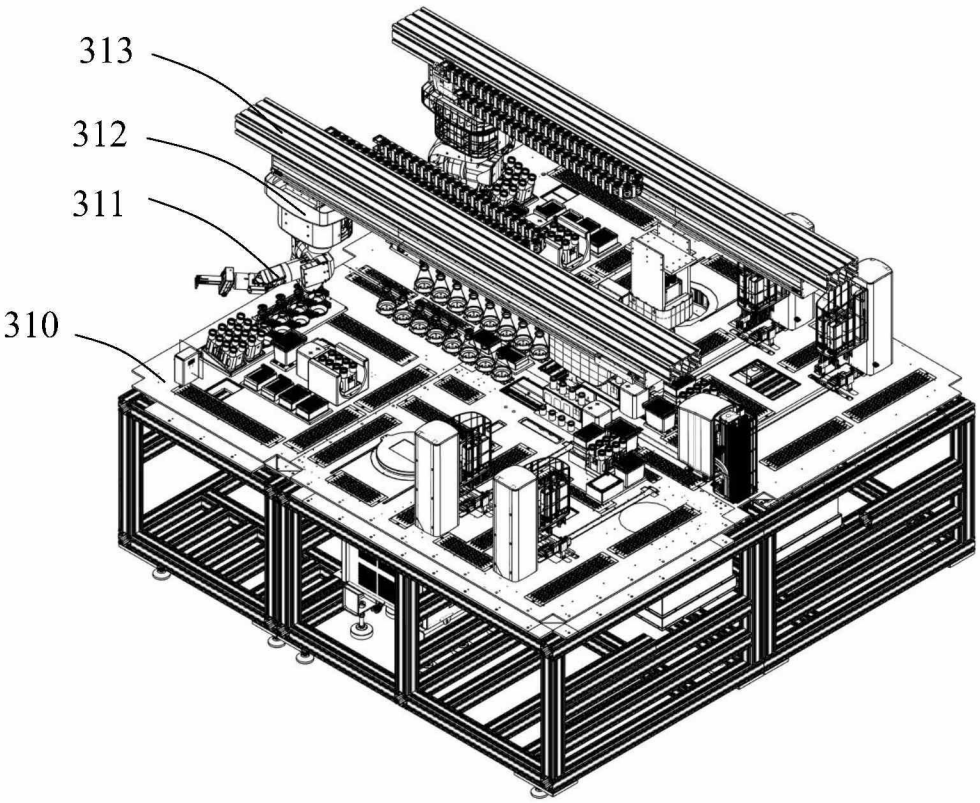

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Fig.13

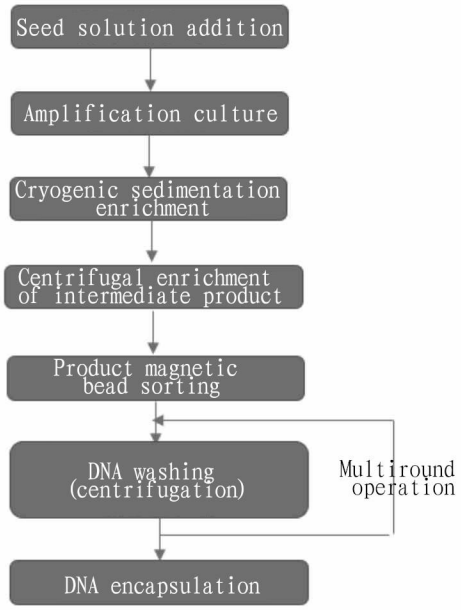

Seed solution addition
Amplification culture
Cryogenic sedimentation enrichment
Centrifugal enrichment of intermediate product
Product magnetic bead sorting
DNA washing (centrifugation)
Multiround operation
DNA encapsulation

Fig.14

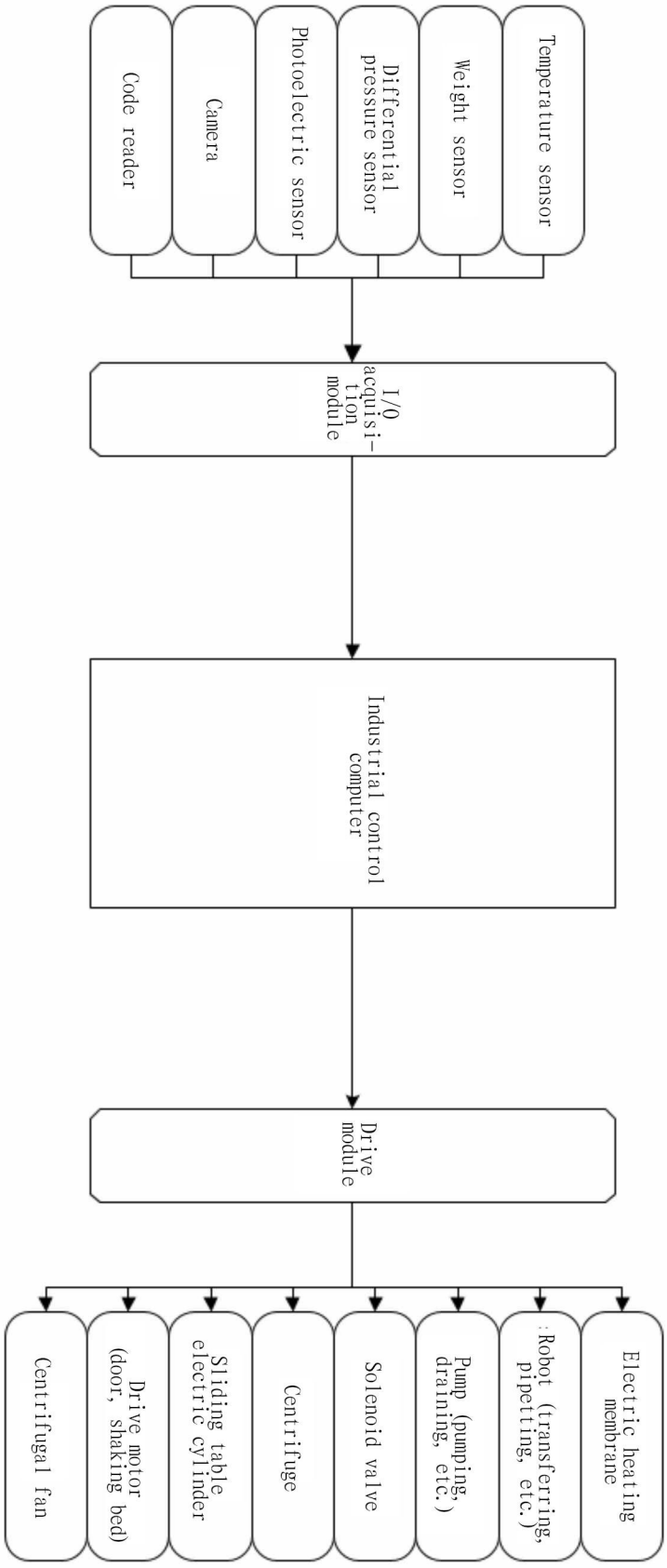

Temperature sensor
Weight sensor
Differential pressure sensor
Photoelectric sensor
Camera
Code reader
I/O acquisition module
Industrial control computer
Drive module
Electric heating membrane
Robot (transferring, pipetting, etc.)
Pump (pumping, draining, etc.)
Solenoid valve
Centrifuge
Sliding table electric cylinder
Drive motor (door, shaking bed)
Centrifugal fan

Fig.15