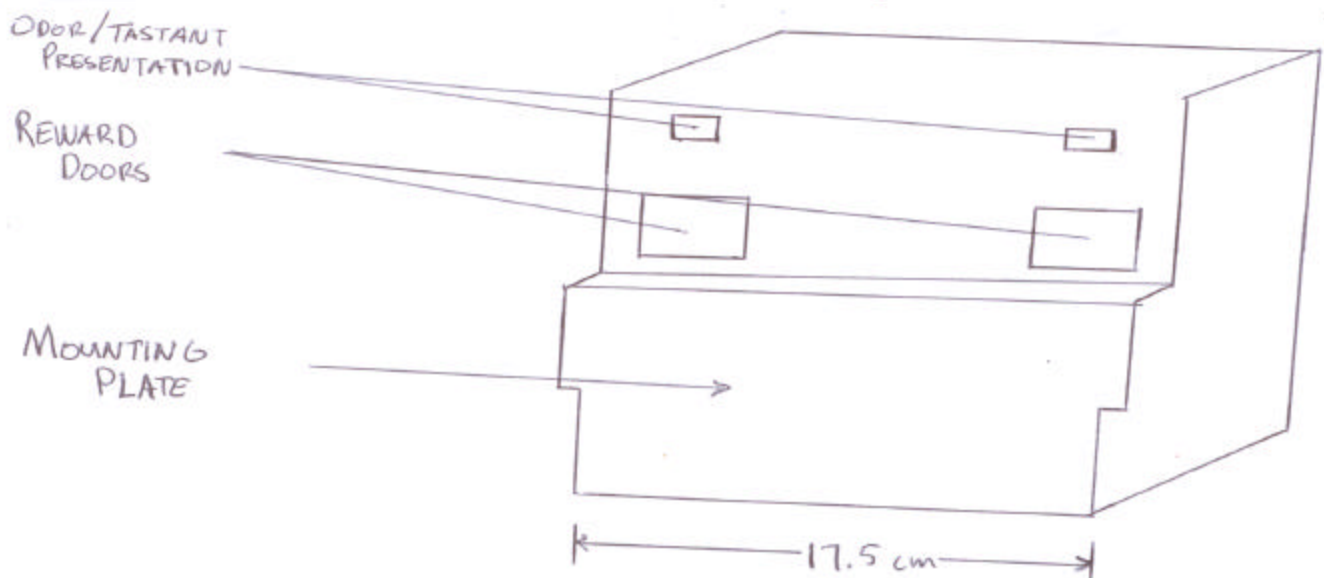


## Selected design

The design, shown below, which can be incorporated into the “new”, cages was chosen. The design with the side-by-side reward doors with the odor/tastant presentation directly above the rewards is the most applicable and functional design. The new cages have the feeding tray mounting plate(appendix), which secures the feeding tray to the cage. An identical mounting plate can be incorporated onto the front of the device, which avoids many mounting concerns. Also, there are larger holes in the cage mesh through which the caged monkey can easily reach through to manipulate the device (see figure below). This eliminates the large problem associated with the monkey’s inability to reach through the cage to perform the tests. These “new” cages are also becoming a standardized cage in laboratory settings, therefore, this design could be applied easily in any lab that uses these new cages.

The specific design of the monkey-device interface was selected for its simplicity and ability to incorporate a tasting bottle, for which the client requires. This design is superior to the other designs in both these regards. The vertical revolving door design could not be developed to incorporate a tasting bottle, which is used to deliver a liquid stimulus to the monkey. This is due to the revolving design. The side-by-side design can easily incorporate drinking bottles by securing them internally within the box, with the nozzle of the bottle protruding through the odor/tastant presentation door. Also, the way the feeding holes in the cage are oriented makes the vertical revolving door impossible, and the side-by-side model the obvious choice.

The box is recessed inward to avoid the sliding door of the cage. The device will be mounted so that the two reward doors will be located directly in front of the far right and left mesh holes of the cage. The odor/tastant doors will be located above the sliding door tract, and between the thin mesh holes directly above the door tract.



Photograph of “new” cage with mounted feeding tray directly below large mesh holes.

