

surface of the base and extending parallel to the base across the center thereof, a vertical frame member having a first end attached to said slide bar adjacent to one end of said slide bar and extending perpendicular to said slide bar, a right-triangular shaped support member attached perpendicularly to said slide bar and to said vertical member adjacent the attached ends thereof, and at least one rectangular alignment support having at least one detent notch, said rectangular alignment support being attached to said vertical frame member at a distance from the end of said vertical support member that is attached to said slide bar;

an insertion mechanism attached to said vertical frame member at an end opposite said slide bar by a frame, and including a U-shaped bracket having holes for supporting a movable rod, the rod being movably attached at one end thereof by a first joint to a strut, the strut being movably connected to a handle bracket by a second joint, the handle bracket being movably connected at an end thereof to said first frame by a third joint and being attached to a handle, the handle when pulled causing said strut to move said rod towards said slide bar;

a pump mechanism support assembly for removably supporting one or more pump mechanisms thereon and including a detent screw, the pump mechanism support assembly being attached to one end of said rod to be moved along the length of said rectangular alignment support by movement of said rod, the detent screw extending through a pressure bar in slidable contact with said at least two rectangular alignment supports and said at least one detent notch; and

a test tube holder removably and slidably attached to said slide bar for holding and positioning test tubes in axial alignment parallel to the pump mechanisms

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supported in said pump mechanism support assembly so that when the rod moves towards said slide bar the pump mechanisms are inserted into closures of the test tubes.

12. The apparatus of claim 1 wherein: said support means releasably supports at least two pump mechanisms; said holding means releasably holds at least two test tubes; and said insertion means for puncturing the closures of each of two test tubes with a respective pump mechanism substantially simultaneously.

13. The apparatus of claim 1 wherein said insertion means applies a cantilever force to said support means for displacing said support means.

14. A manually operated apparatus for attaching pump mechanisms to sealed test tubes, each test tube sealed by a resilient, puncturable closure, comprising: a frame including a base; support means attached to said frame for releasably supporting one or more pump mechanisms; means for releasably holding at least one test tube, said holding means movably engaging and being displaceable on the base of said frame into position in alignment with the support means, each test tube having an elongated axis; and manually operated insertion means, attached to said frame, for applying a force to said support means along an axis offset from said test tube elongated axis for displacing said support means and the pump mechanisms supported thereon towards said holding means and test tubes held therein, wherein said support means holds said pump mechanisms to thereby puncture the closures of the test tubes with said pump mechanisms upon operation of said insertion means.

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