

The Concentric Tube Launcher

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September 25, 2022

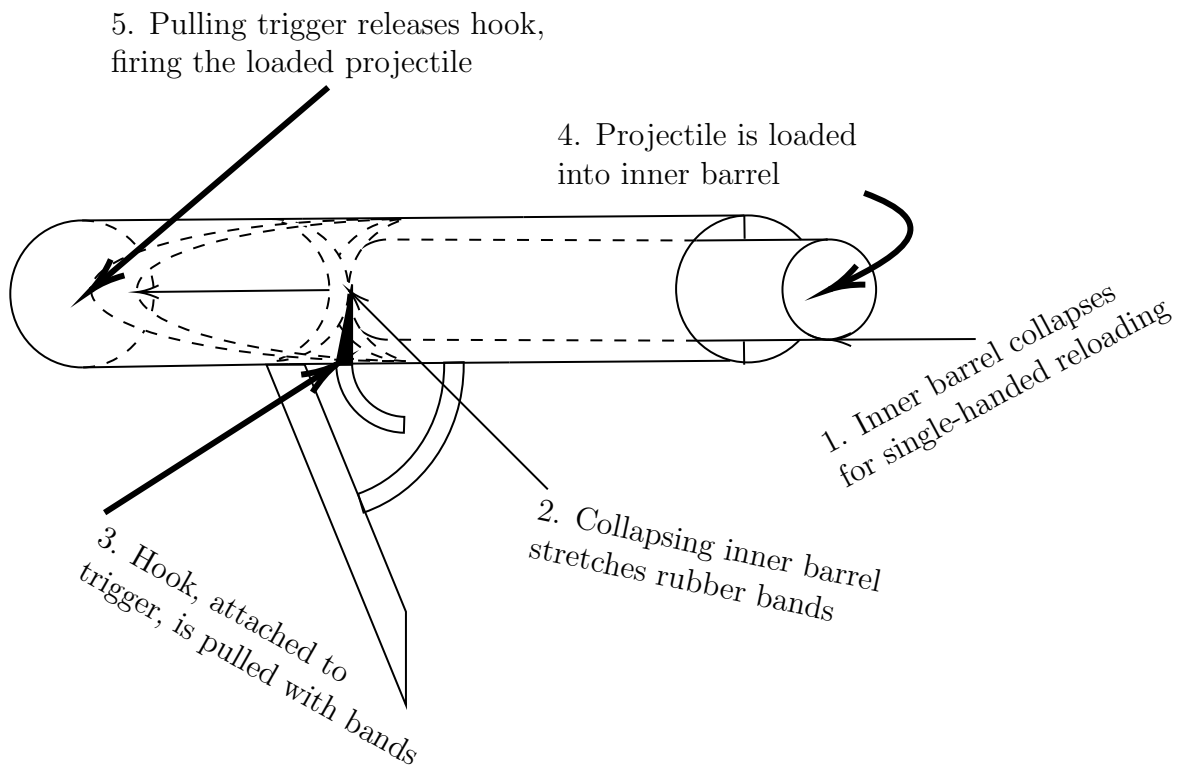


Figure 1: Concentric Tube Launcher Concept Sketch

The concentric tube launcher contains an inner and outer barrel for single-handed reloading. Pressing down on the inner barrel collapses it, pushing back two rubber bands. These bands are held in place by a hook attached to a trigger. A ping pong ball is then loaded into the inner barrel. Pulling the trigger releases the bands, propelling the ball, which is loose inside the inner barrel, and launching it.

Source:

- [1] Vanek and Flatau, “Launcher for use in toy gun, has trigger that is moved for causing drive to rotate drive unit for contacting ring airfoil projectile, where drive unit is configured to engage projectile for launching projectile,” Jan. 07, 2005 Accessed: Sep. 24, 2022. [Online]. Available: <https://www-webofscience-com.ezproxy.neu.edu/wos/alldb/full-record/DIIDW:2005616697>
- [2] R. M. French, V. Gorrepati, E. Alcorta, and M. Jackson, “THE MECHANICS OF A PING-PONG BALL GUN,” *Experimental Techniques*, vol. 32, no. 1, pp. 24–30, Jan. 2008, doi: 10.1111/j.1747-1567.2007.00214.x.