

ABSTRACT



AN AUTO SAFETY SYRINGE

A syringe comprises: a barrel, a plunger with a piston, a rubber adaptor, a needle, a spring and a valve. The spring is engaged in between the valve and the piston within the barrel. The adaptor affixed at a protruding nose of the barrel and the needle is locked at a threaded portion within the adaptor snugly, which includes a female interlocking structure to receive a male interlocking structure aligning a loosen means of the plunger, characterized in that the male interlocking structure is loose staying within, and can afford to pull the adaptor with the needle into the barrel upon retraction of the plunger, in the manner that the adaptor due to loosen within, declines together with the needle causing the needle tip leans on the inner wall of the barrel and is abutted by the base within. Additionally, the plunger has male safety structure which when associates with a female safety structure within the valve, disallowing the plunger be withdrawn automatically by the spring, unless manually turning the plunger to do so, furthermore, it can trap the piston within the barrel, allowing the plunger to break at a fragile portion provided therein, thereby absolutely ensuring non-reusable and avoid needle stick injuries.

(FIG. 11)