

**TITLE OF INVENTION: SAFETY SYRINGE CAPABLE OF BEING USED FOR
NEEDLE-FREE DOSING INJECTION**

ABSTRACT

A safety syringe includes a needle seat, an adapter disposed on the needle seat, and an injection barrel penetrated into the needle seat and the adapter. When an outer sleeve is located at a first position, a first annular rib of the outer sleeve is engaged with an elastic wing of the adapter, such that the needle seat protrudes from the front end of the outer sleeve. A push rod penetrated into the injection barrel is used to take in and expel liquid medicine. When the outer sleeve is located at a second position, the outer sleeve accommodates the needle seat and the adapter inside and pushes against the elastic wing of the adapter through a second annular rib, such that the outer sleeve is detachable from the injection barrel together with the needle seat and the adapter. The injection barrel can be used for needle-free dosing injection.

[FIG. 2]