Patent Document 2 discloses a configuration in which a portion that retains an injection liquid is separated from a pressurizing portion that applies pressure to the injection liquid. In this configuration, the injection liquid holding portion and a driving source of the pressurizing portion are replaced after the injection liquid is injected, whereby subsequent injection can be performed.

[0004]

Patent Document 1: US Patent Specification No. 6258063

Patent Document 2: Japanese Translation of PCT Application No. 2003-535654

Patent Document 3: US Patent Application Publication No. 2003/0114789

DISCLOSURE ~~OF THE INVENTION~~

[0005]

Regardless of presence of an injection needle, when an injection liquid is injected into an injection target area, injection conditions such as the kind and amount of injection liquid, the magnitude of load applied to the injection liquid in order to deliver the injection liquid to an injection target area changes depending on the subject person and the purpose of injection. Thus, in order to realize injection under intended conditions, the syringe needs to have a configuration corresponding to the conditions and it cannot be said that such a syringe provides good user's convenience.

[0006]

The present ~~invention~~ disclosure has been made in view of the problem and an object thereof is to provide a syringe capable of facilitating injection of injection liquid ideal for various purposes and improving user's convenience.

[0007]

In order to solve the problem, a syringe of the present ~~invention~~ disclosure includes a configuration for regulating an order of constituent portions of the syringe, which is loaded into a housing thereof. With this configuration, when respective constituent portions are loaded into the syringe in order to perform injection, even if there is an error in the order of loading the constituent portions, a user can recognize the error immediately with the regulating configuration. Thus, it is possible to improve the convenience of the syringe.

[0008]

~~Specifically~~In one aspect, the present ~~invention~~ disclosure provides a syringe that injects an injection objective substance into an injection target area of a living body, ~~including~~ the syringe comprising: a housing; a holding portion that accommodates the injection objective substance; a driving portion that applies injection energy toward the injection objective substance accommodated in the holding portion, from the holding portion; and a nozzle portion that includes a passage, through which the injection objective substance injected from the holding portion flows, and injects the injection objective substance from an open end of the passage to the injection target area~~. The~~, wherein the holding portion, the driving portion, and the nozzle portion are loaded into the

housing independently, whereby a state where the injection objective substance can be injected is established~~. The~~, the syringe further ~~includes~~ comprising: regulating means for regulating a loading position of the holding portion and the driving portion within the housing so that a loading state where the holding portion and the driving portion are always loaded in the same order into the housing is established for injection of the injection objective substance.

[0009]

In the syringe according to the present ~~invention~~disclosure, preparation for injection of the injection objective substance is made when the holding portion, the driving portion, and the nozzle portion which are constituent portions thereof are loaded into the housing in an independent manner. In the syringe, when the driving portion applies injection energy to the injection objective substance accommodated in the holding portion, the injection objective substance flows through the passage of the nozzle portion and is injected to the injection target area from the open end of the passage. The injection objective substance contains a component which is expected to exhibit effects inside the injection target area. As described above, the injection energy applied by the driving portion is the driving source when the injection objective substance is injected. Therefore, an accommodation state of the injection objective substance in the syringe and a specific physical form of the injection objective substance such fluid in a liquid or gel form, powder, granular solid is not particularly limited as long as that the injection objective