

HYPODERMIC NEEDLE PROTECTION DEVICE

Description:

The biological risk of accidental needle stick is the risk to which the worker is subjected by accidental inoculation of pathogenic microorganisms, in our case of blood and blood products present in the syringe needles. At present there are various devices for the protection of the corresponding needle, but many of them have certain drawbacks, such as their difficulty in handling, their excessive complexity and their high cost. Thus, the present invention relates to a protection system against accidental inoculations, the main purpose of which is to prevent the spread of blood-borne diseases (such as hepatitis or AIDS) and which can be activated simply and with one hand. The system also has anti-return means that prevent accidental retraction of the hypodermic needle protector once activated. The protective system of the invention consists of four elements, the first of which protects the needle before being used. The needle hub has been designed in accordance with specific regulations and houses not only the hypodermic needle, but also an extendable element in the form of a bellows that allows the upper part of the hub to be extended. The release of the mechanism occurs by virtue of the thrust exerted on the notch located in the middle of the needle hub. This extension of the bellows makes the top of the hub securely protect the tip of the needle.

Keywords:

[Medical Devices](#), [Syringe](#), [Hypodermic Needle](#), [Protection](#)

Sectors:

[Health](#)

Areas:

[Instrumentation](#)



Advantages:

Compared to existing methods today, this new system has the following advantages: • Economic cheaper, given that its production cost and materials used are low cost. • The simplicity of the mechanism, allowing it to be used with one hand, facilitating the work of the professional. • Complies with all UNE-EN ISO standards related to syringe components, such as: o UNE-EN ISO 7864 o UNE-EN ISO 6009 o UNE-EN ISO 9626 o UNE-EN ISO 1707 o UNE-EN ISO 7886-1 o UNE-EN ISO 8537 o UNE-EN ISO 8871-2 o ISO 594-1

Uses and Applications:

The present technology is useful in the use of syringes when they are used in the extraction or administration of injectables.

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