

## NEW DEVICE FOR THE INFUSION OF A FLUID MEDICATION

### Description:

Currently, there are various medical treatments that require the use of infusion devices for the administration of drugs in liquid form to the patient. These devices can be basically divided into two types: hospital devices and portable devices. Portable or personal devices are small devices that the patient can carry, such as piston pumps, peristaltic pumps, piezo-electric pumps, phase change pumps, or pressurized pumps. The present technology refers to a new pressurized pump type fluid drug infusion device that improves on existing devices.

### Keywords:

[Medical Devices](#), [Drug](#), [Medicine](#), [Drug Infusion](#), [Pressurized Pumps](#)

### Sectors:

[Health](#), [Engineering](#)

### Areas:

[Health Sciences](#), [Instrumentation](#), [Quality of life](#), [Technological Improvements](#)



### Advantages:

The main advantages of this device are related to the use of an intrinsic safety valve that is located between the main drug reservoir and the drug delivery catheter to the patient and that provides inherent safety by its own construction. On the other hand, it includes a sealing element designed in such a way that it is physically impossible for the intermediate chamber to be brought into contact with the reservoir and with the catheter at the same time, avoiding drug administration errors. An important advantage of this arrangement is that it is possible to control with great precision the amount of medicament that is administered to the patient in each application.

### Uses and Applications:

The present technology falls within the field of medicine, and more particularly the infusion of drugs to patients, for example for the treatment of chronic pain.

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