

DRUG DELIVERY DEVICE

Abstract

The subject invention provides a drug delivery device (10) for injecting medicament which includes: a tubular reservoir (14) for accommodating a medicament; a stopper (44) slidably disposed in the reservoir; a spring (58) for moving the stopper from a first position to a second position in the reservoir; at least one needle (16), the needle having a distal end (46) for insertion into a patient, and a lumen (48) extending proximally from the distal end, the lumen being in direct or indirect communication with the reservoir; a needle driver (18) for displacing the needle from a first state to a second state; and, an actuator (20). Activation of the actuator causes the spring to move the stopper from the first position and towards the second position, and the needle driver to displace the needle from the first state and towards the second state. The needle moves relative to, and separately from, the reservoir with the needle being displaced from the first state and towards the second state. Advantageously, with the subject invention, a drug delivery device is provided wherein a needle is moved, relative to the reservoir, in being displaced for injection. This permits control of the needle displacement separate from the reservoir.

Fig. 2