

**DEVICES AND METHODS FOR ENGAGING INDEXED VALVE AND
PRESSURIZED CANISTER ASSEMBLY WITH COLLAR AND FOR LINEAR
ACTUATION BY PLUNGER ASSEMBLY INTO FLUID COMMUNICATION WITH
DEVICE FOR REGULATING DRUG DELIVERY**

Abstract

An indexed drug delivery device (70) comprising a valve assembly (13) comprising a housing (26) and a valve, the valve disposed within the housing, one or more keys (34, 38) integral to the housing, the keys complementary to corresponding openings on a collar (12), a pressurized canister (28) in fluid communication with the valve assembly, the canister containing an active pharmaceutical ingredient and an inactive carrier gas, a receiving assembly comprising a receptacle adapted to engage at least a portion of the housing, a seat adapted to engage the valve, and, a plunger assembly adapted to linearly actuate the valve assembly and canister along an axis and to engage the valve and seat, the plunger assembly comprising a carriage fixed to the collar, and, a lever having a cam adapted to engage a spring, the spring adapted to linearly actuate the carriage, valve assembly, canister and collar along the axis.

Fig. 1