

An injection device is provided for the infinitely variable metering and administering of a liquid preparation from a multi-dose injection cartridge having a rear piston which may be moved forward by means of a piston rod. The longitudinal movement of the piston rod is governed by two couplings arranged along the piston rod and each being capable of releasably gripping the piston rod by a locking device. The piston rod has a wedge-shaped cross section and each of the couplings includes a clamping shoe which has a wedge-shaped groove, the cross section of which is adapted to that of the piston rod, and locking device, by which the piston rod and each clamping shoe may be releasably clamped together to lock the piston rod in the groove of said clamping shoe.