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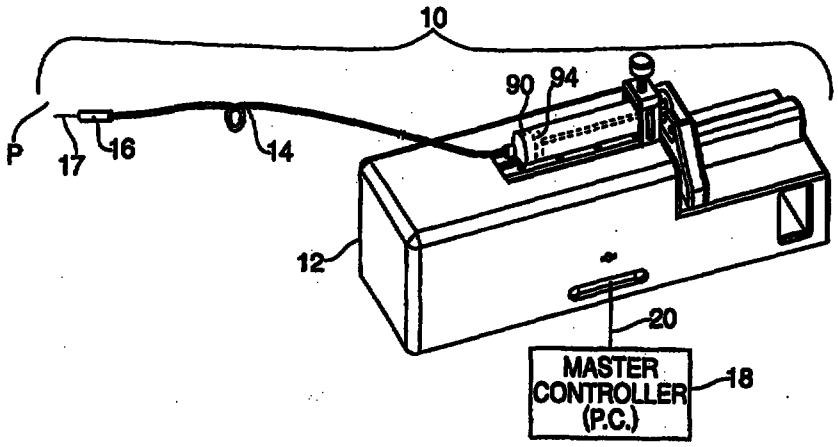
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(54) Title: PRESSURE/FORCE COMPUTER CONTROLLED DRUG DELIVERY SYSTEM AND THE LIKE



(57) Abstract

An electric infusion pump system (10) is described. The infusion pump system (10) minimizes pain, tissue damage by monitoring, and controlling hypodermic injection pressure. The infusion pump system (10) is made of a mechanical assembly, and an electrical controller (18). The mechanical assembly consists of a drive mechanism (12) including a housing (22), a motor (66), a mount for the fluid storage device, a load cell (78) to determine fluid pressure, and a coupling (30) to move the fluid storage device's plunger (94); a fluid storage device (90) including a reciprocating plunger (94); and a fluid delivery device including a tube (14), and a needle (17). The electrical controller (18), which controls the overall operation of the system via control of the motor (66), consists of a master microprocessor, a slave microprocessor, an input device for the user, and memory.