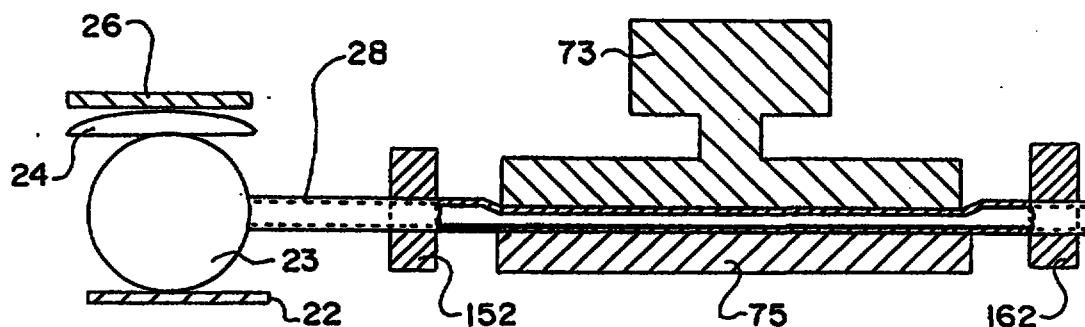




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(54) Title: **A FLUID DELIVERY MECHANISM**

(57) Abstract

The present invention provides an infusion pump (10) for providing a flow of a liquid through a tube (28). The infusion pump (10) includes at least two occluders (152), (162) having an open position and a closed position for releasably pinching-off the tube (28). A metering chamber is disposed between the two occluders (152), (162). A first plunger (72) and a second plunger (73) are provided, each plunger (72), (73) having an open position and a closed position for releasably compressing the metering chamber. In the method of the present invention, an occluder (152) releasably pinches-off the tube near the source of the liquid at a first location. The second occluder (162) releasably pinches-off the tube at a second location that is downstream from the source of the liquid (23) and the first location. The tube (28) is released at the first location and a plunger (72) compresses the tube (28) between the first location and the second location, thereby generating a flow of the liquid through the tube (28) in a direction towards the source of liquid (23).