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(54) **Title:** FLUID TRANSFER DEVICES WITH EXTENDED LENGTH CATHETERS AND METHODS OF USING THE SAME

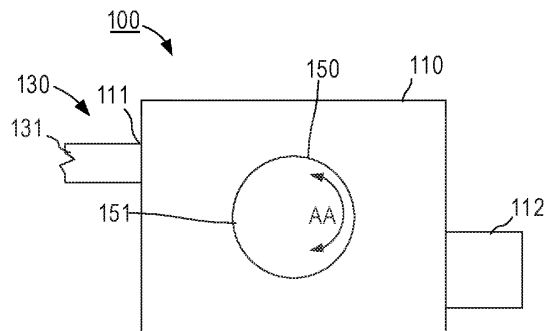


FIG. 1

(57) **Abstract:** An apparatus includes a housing, a catheter, and an actuator. The housing has a first port and a second port that is coupleable to an indwelling vascular access device. The catheter is at least partially disposed in the housing such that the first port of the housing receives a proximal end portion of the catheter. The actuator is partially disposed in the housing to selectively engage a portion of the catheter in the housing. The actuator is configured to be rotated an angular distance relative to the housing to move a distal end portion of the catheter a linear distance from a first position inside the housing, to a second position in which the catheter extends through the second port and distal to the indwelling vascular access device when the second port is coupled thereto. The linear distance is greater than the angular distance.

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