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(54) Title: HIGH PRESSURE WATERBLASTING NOZZLE MANIPULATOR APPARATUS

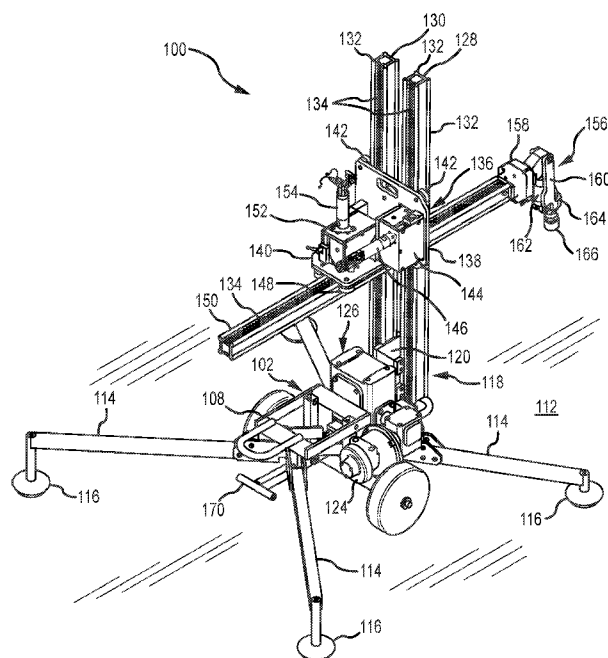


FIG. 1

(57) Abstract: A high pressure nozzle manipulator includes a wheeled chassis, a pair of parallel manipulator elevator rails supported by an elevator rail rotator fastened to the chassis, a horizontal extensible arm rail disposed between and carried by the manipulator elevator rails, a rotary actuator fastened to a distal end of the horizontal extensible arm rail, and a linear actuator fastened between the first rotary actuator and a hinged nozzle support bracket. This bracket holds a high pressure cleaning nozzle. The linear actuator is configured to rotate the nozzle and the bracket through an arc. The elevator rail rotator is configured to rotate the elevator rails through an arc of about 180 degrees about a horizontal axis. The rotary wrist actuator is configured to rotate the nozzle support bracket about a horizontal axis through the extensible arm rail.

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