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(54) Title of the Invention: Quick Coupler hydraulic control system for the implement of a works machine
Abstract Title: Quick Coupler hydraulic control system for the implement of a works machine

(57) A hydraulic system (140) for an implement coupler assembly (40) of a machine (10) includes a coupler cylinder (66), a control valve (154) connecting the coupler cylinder to a pressurized fluid source (142) and a low pressure reservoir (144), and a sequence valve (170) and a check valve (168) connected in parallel between the coupler cylinder and the control valve. An implement cylinder (30) provides a pilot pressure for the sequence valve. The coupler cylinder extends to a locked position when the control valve provides pressurized fluid through the check valve to a head end (66A) of the coupler cylinder. The coupler cylinder retracts to an unlocked position when the control valve provides pressurized fluid to a rod end (66B) of the coupler cylinder if the implement cylinder provides pilot pressure sufficient to open the sequence valve and connect the head end of the coupler cylinder to the low pressure reservoir.

