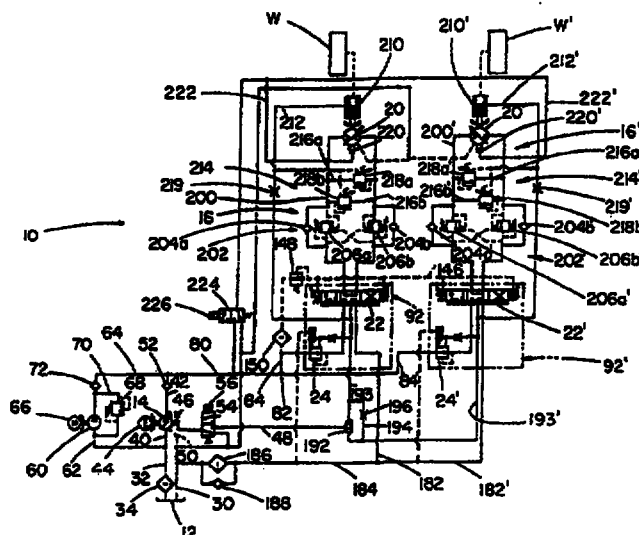


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(54) Title: **LIMITED SLIP DIFFERENTIAL HYDRAULIC DRIVE SYSTEM**

(57) Abstract

A hydraulic wheel drive system comprises a fluid source (12), at least two wheel drive motors (20, 20'), a pump (14) connected between the fluid source and the motors, at least two flow restrictions (22, 22'), and at least two load reaction compensators (24, 24'). Each motor drives at least one wheel (W, W') at varying speeds responsive to varying fluid flow rates supplied from the source. Each flow restriction (22, 22') is positioned between the pump and at least one motor, and varies the flow rate to at least one motor responsive to upstream pressure changes. Each compensator (24, 24') is connected between the pump and at least one restriction, and controls pressures upstream from at least one restriction to control the respective wheel speed. Each compensator maintains a first constant upstream pressure when the downstream pressure is below a first value, and a second constant upstream pressure when the downstream pressure is above a second value.