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Marrucci

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(54) **REMOTELY-ACTUATED DUAL-PRESSURE RELIEF VALVE**

(56) **References Cited**

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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 166 days.

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(57) **ABSTRACT**

A relief valve assembly includes an actuating assembly, a relief valve, and a check valve. The actuating assembly includes a housing forming a cylinder, and a pilot piston within the cylinder. The relief valve includes a housing forming opposed first and second blind bores, a relief valve piston within the first bore and carrying a relief valve member, and a first spring acting between the pilot piston and the relief valve piston to bias the relief valve member toward a valve seat to close the valve seat. A pilot pressure is selectively applied to move the pilot piston toward the first spring to selectively increase the relief pressure of the relief valve from a first relief pressure to a second relief pressure. The check valve includes a check valve member within the second blind bore, a second spring biasing the check valve member away the second blind bore.

(52) **U.S. Cl.**

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 See application file for complete search history.

19 Claims, 5 Drawing Sheets

