

[54] HYDRAULIC ELASTOMER

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[56] References Cited

UNITED STATES PATENTS

2,867,599	1/1959	Hurd et al.	260/46.5 UA
3,652,711	3/1972	Triem et al.	260/46.5 UA

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[57] ABSTRACT

A silicone elastomer that flows like a fluid under high pressure is described. It is made by heating a silicone fluid, having a molecular weight close to 60,000 and containing approximately 0.45 mole percent of methylvinylsiloxane units, with a vinyl-specific peroxide. This elastomer is characterized by a combination of a high cross-link density and a high proportion of free chain ends. It crumbles to a powder under high shear stress, but has the unique property of flowing like a viscous fluid through a narrow orifice. It is useful in hydraulic impact absorbers and other hydraulic systems.

21 Claims, No Drawings