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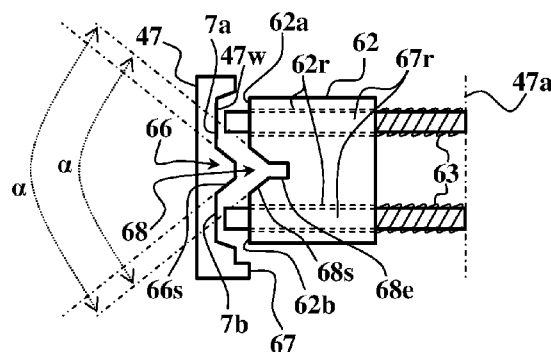


Fig. 8

(57) Abstract: A centrifugal brake mechanism for a controlled descent device, and a drum device employing it, are described. The brake mechanism comprises a circular wheel configured and operable to rotate about an axis of rotation thereof, an axle extending along and rotatable about the axis inside a central cavity of the wheel and having two or more parallel shaft rods extending inside the cavity substantially perpendicular to the axis of rotation, a gear system for transferring rotations of the wheel into counter-rotations of the axle, one or more brake elements each having two or more pass-through bores for slidably mounting over the two or more parallel shaft rods, two or more springs mounted over the parallel shaft rods between the brake element and the axle, and a friction enhancement mechanism for increasing friction forces between the brake elements and the inner wall the wheel responsive to increase in angular velocity of the wheel.

