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(71) Applicant (for all designated States except US): **TYCO FIRE PRODUCTS LP** [US/US]; 451 N. Cannon Avenue, Lansdale, PA 19446 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **ROGERS, Kenneth, W.** [US/US]; 986 Williamson Road, Horsham, PA 19044 (US).

(74) Agents: **LAUB, David, W.** et al.; TYCO ENGINEERED PRODUCTS & SERVICES, 9 Roszel Road, Princeton, NJ 08540 (US).

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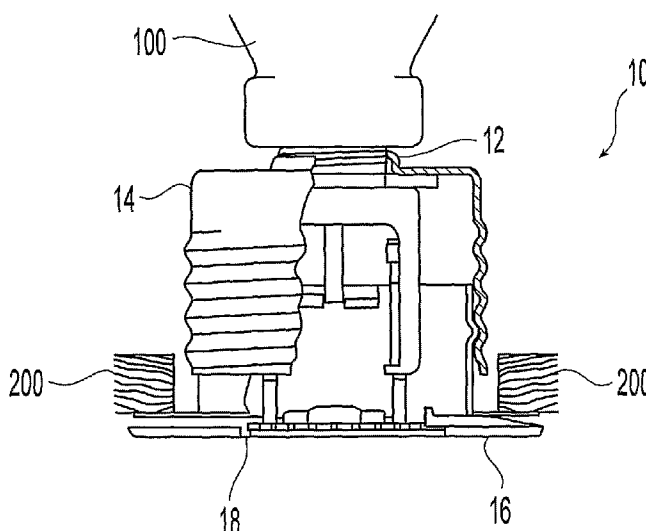
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(54) Title: RESIDENTIAL FLAT PLATE CONCEALED SPRINKLER



(57) Abstract: A pendant sprinkler preferably includes a body having an inner surface defining a passageway. The passageway includes an inlet and an outlet spaced apart along the longitudinal axis and defines a K-factor of about 5. The sprinkler also includes a closure assembly adjacent the outlet to occlude the outlet and a thermally responsive support means for maintaining the closure assembly adjacent the outlet. Also provided are means for distributing a flow of fluid over a protection area ranging from about 144 square feet to about 400 square feet, the fluid distribution having a density of at least 0.05 gallons per minute per square foot (0.05 gpm/ft²) so as to define a range of minimum operating pressures ranging from about seven pounds per square inch to about seventeen pounds per square inch (7-17 psi.) and a range of minimum operating fluid flows ranging from about thirteen gallons per minute to about twenty gallons per minute (13-20 gpm.). The sprinkler preferably includes a thermally responsive plate means for maintaining a minimum spacing between the outlet and the means for distributing.

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