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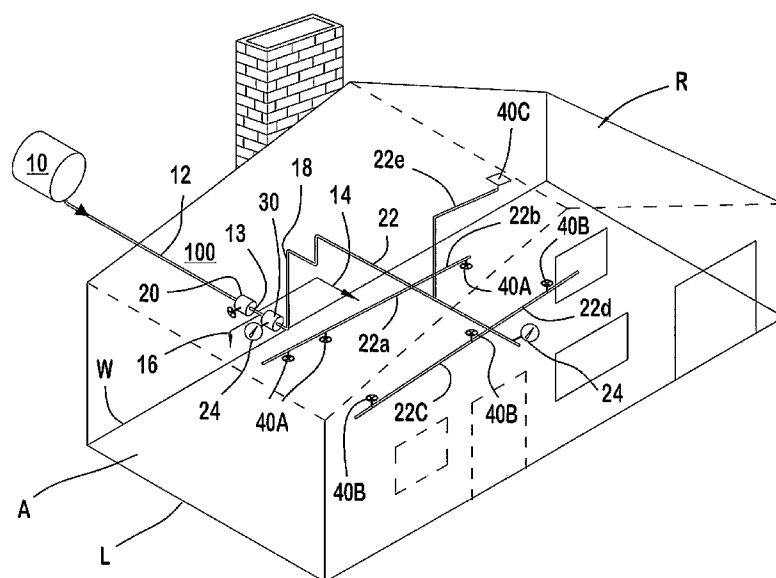
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(54) Title: RESIDENTIAL DRY SPRINKLER DESIGN METHOD AND SYSTEM



(57) **Abstract:** A method of designing a residential fire protection system in a residential dwelling unit (R) are shown and described. The residential dwelling unit (R) has a plurality of compartments as defined in the 2002 National Fire Protection Association Standards 13, 13D, and 13R. The method can be achieved by: determining a minimum quantity and location of residential fire sprinklers (40A, 40B, 40C) required to determine a hydraulic demand calculation of the residential fire sprinklers (40A, 40B, 40C) of a piping network (100) filled with water and arranged to protect the plurality of compartments; and specifying the minimum quantity and location of residential fire sprinklers (40A, 40B, 40C) in a piping network (100) filled with a gas. Various aspects of the invention are also shown and described.

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