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(54) Title: CONTROLLED SYSTEM AND METHODS FOR STORAGE FIRE PROTECTION

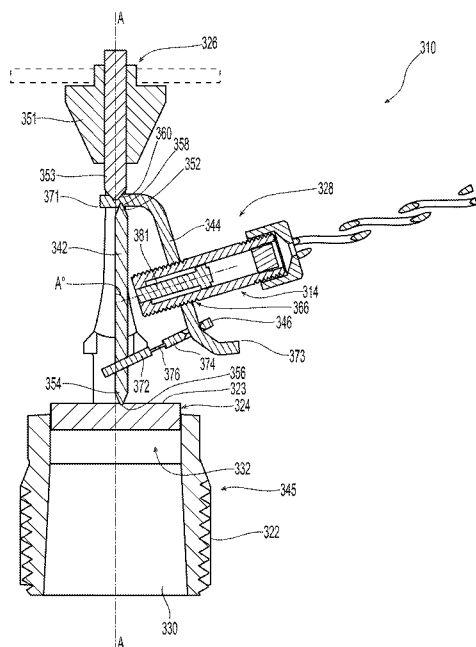


Fig. 7

(57) Abstract: Fire protection systems and methods for ceiling-only high-piled storage protection. The systems include a plurality of fluid distribution devices disposed beneath a ceiling and above a high-piled storage commodity having a nominal storage height ranging from a nominal 20 ft. to a maximum nominal storage height of 55 ft. and means for quenching a fire in the storage commodity. The stored commodity to be protected may include exposed expanded plastics. The fluid distribution devices include a frame body having an inlet, an outlet, a sealing assembly, and an electronically operated releasing mechanism supporting the sealing assembly in the outlet.



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