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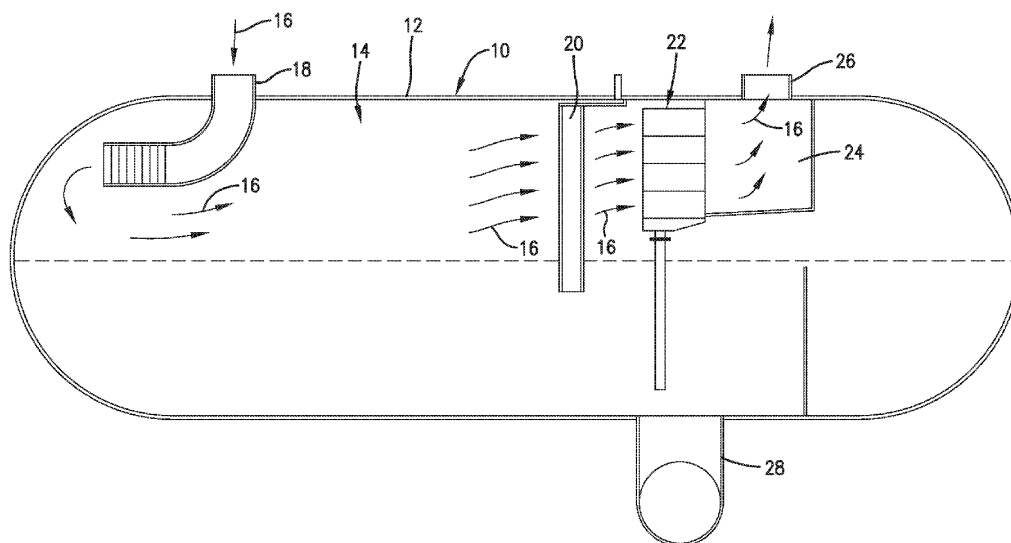


Fig. 1.

(57) Abstract: A cyclone box for removing liquid from a flowing vapor stream includes a box structure with sides walls and a roof having first and second sloping sides that drain into drainage channels formed along the side walls. At least one cyclone can is mounted within the box structure and includes a cylindrical wall that forms a flow chamber having an inlet end at the front end of the box structure and an opposite outlet end at the back end of the box structure. A swirler positioned within the cylindrical wall imparts a swirling motion to a vapor stream when flowing through the flow chamber to create centrifugal forces that cause liquid in the vapor stream to coalesce on an inner surface of the cylindrical wall. One or more outlets allow the liquid to coalesce on the inner surface of the cylindrical wall to drain into a volume of the box structure outside of the cylindrical can and then onto the roof of an underlying cyclone box and into the drainage channels.

[Continued on next page]

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