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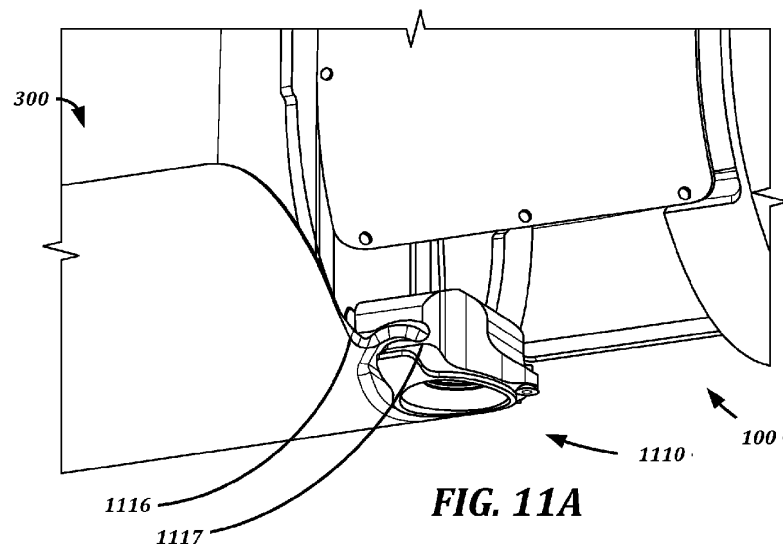
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(54) Title: ROTATING RELEASE LAUNCHING SYSTEM



**FIG. 11A**

(57) Abstract: The present disclosure provides a payload deployment system that is operative to receive and retain a configurable payload. The payload deployment mechanism helps to reduce the drag of the payload and to protect the payload from environmental factors. The payload may be released using a hinge mechanism to ensure the payload does not contact the payload deployment mechanism when the payload is deployed. A vent may be utilized to equalize pressure between the external environment and a body portion of the payload deployment mechanism. The vent may generate an additional force to assist in separating the payload from the launcher.

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