

ROTATING RELEASE LAUNCHING SYSTEM

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.

Fig. 11A