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DESIGN AND EXAMINATION OF STAGE-SEPARATION CONNECTING APPLIANCES OF A  
MISSILE

**Abstract**

In this paper, a stage-separation connecting appliances with shear-bolts was designed. The feasibility of design was validated by ground test. The stage-separation connecting appliances worked credibility and two stage separated rapidly during the flight test. The design of this stage-separation connecting appliances, occupying little space, could be used for medium and small size missiles.