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Hands-Free Repelling Device Improvement

Current rappelling systems on the market use friction, which requires users to control all aspects of descent and speed. The devices are limited in function because they are cumbersome and heavy to use when incorporated into systems. Bailout Systems has created a rappelling/descent device that allows a user to lower themselves, or a victim to the ground, hands-free with no user interaction. The technology allows users from 150-350 pounds to jump, then be lowered to the ground safely while at a predetermined speed. Once an anchor has been set, the user simply exits a structure or platform. This device is lightweight and portable, roughly the size of a hockey puck. This is significant because both current fall safety systems and tactical rappelling devices are heavy, have tactical limitations, require substantial training and often result in injury during both training and use. The technology can be scaled for much greater weights across multiple platforms, impacting other applications such as critical helicopter supply delivery to military forces.

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