



Rotatable Seat Assembly

Track Code: CRANE-99433

Categories:

- Mechanical Engineering
- NSWC Crane

Keywords:

- Crane
- Mechanical Engineering

Gunners who work from turret seats on vehicles are seated in uncomfortable and inadequate seating. The standard safety strap can cause the circulation in the gunner's legs to be cut off. Numbness and pain severely impact concentration and reaction and, in some cases, can result in permanent nerve damage. These turret seats provide no security in the event of an accident nor any protection from blast pressures or fragmentation. Vibrations and other impacts to the vehicle itself can cause difficulty during normal operations.

Naval Surface Warfare Center, Crane Division (NSWC Crane), has developed, patented, and deployed a replacement for gunner seats on tactical vehicles that provide shock absorption, fatigue mitigation, and blast effects reduction. This design significantly reduces numbness and pain when the gunner is seated for 8-10+ hours. It provides protection from blast pressures and fragmentation as well as provides cushioning from vibrations and impacts from the vehicle. The seat is adjustable to accommodate 95% of male users.

Advantages

- Reduces pain and numbness
- Provides protection from blast pressures and fragmentation
- Cushions vibrations and impacts
- Adjustable to 95% of male users

Potential Applications

- Military
- Law Enforcement
- Heavy Equipment Operators

People:

- Brown, Christopher (Project leader)

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Intellectual Property:

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