

Mask Coupling Apparatus for Securing a Mask to a Helmet

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Technology description

The U.S. Navy seeks a partner for licensing and collaboration on an improved mechanism for coupling a mask to a helmet with an easier method of adjustment for quick fit and detachment.

Background

Traditionally, a user who needs to wear both a mask and a helmet will wear the mask straps over their head with a helmet worn over-top of the straps. This requires that the helmet be removed to adjust the straps. Additionally the adjustment mechanisms are sliding tables, which are difficult to adjust when worn in the field, particularly when wearing gloves. As a result, the adjustment of masks is difficult and time-consuming. Users have suffered with the adjustment mechanisms causing discomfort such as pressure points and headaches from poor fitting equipment.

Technology Summary

NSWC Crane has developed and patented a coupling apparatus for attaching a mask to a helmet with easier adjustments for fit while in the field. The coupling method reduces fatigue because there are fewer contact points with the mask wearer. The quick release buckle allows the wearer to detach one side of the respirator.

Application area

Construction safety equipment
Hazmat or other first responders
Military and law enforcement uniforms

Advantages

Easy to detach or attach a mask
Incorporates a quick release
Less fatigue to users wearing the masks

Institution

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