

# Knot Generating Device

**R**esearchers at the University of South Florida have developed a knot generator that is capable of assisting a person fasten a hook or lure to a line. The device ties a clinch knot.

More than 50 million people go fishing in the United States at least once a year. A key component of fun and effective fishing is proper gear, notably reliable knots to tie hooks to fishing line. Tying fishing knots may be a challenging endeavor for a person lacking fine motor control. Furthermore, tying fishing knots can be challenging on a non-steady surface such as a rocking boat. There are no solutions without requiring a buddy with fine motor control or returning to solid land to set up equipment again.

USF inventors have successfully developed an easy to use knot tying device. The design is inexpensive, compact, light weight, non-corrosive, and hand-held. The device is easily manipulated and allows anyone to quickly form the clinch knot. The knot tying device is further designed to ease the knot tying, especially for those with limited dexterity such as children and elderly users.

This invention is directly applicable to the fishing industry to provide assistance in tying a clinch knot.

### ADVANTAGES:

- Easy to use, even for those with fine motor skill control issues
- Light weight
- Non-corrosive
- Buoyant

*Easy Clinch Knot Tying Device*



*3D Printed Prototype*

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