Rope Climbing Machine for Exercise and Strength Training

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- Medical/Health
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The U.S. Navy seeks a partner for licensing and collaboration on a rope climbing method for use in compact space without enough height to install a traditional climbing rope.

Traditional rope climbing requires 20ft or more of height to provide any real exercise or training when climbing. Often it is not practical to install a rope in a gym or training facility due to high constraints. Additionally, it is a safety hazard to have inexperienced climbers at that height without harnesses and safety lines. There are some existing rope climbing machines, but they require supported positions and/or power outlets.

NSWC Crane has developed and patented a rope climbing machine with a continuous rope and a variable braking system that can be used for fully suspended rope climbing technique practice and exercise. The machine can be used in a room with standard ceiling heights which prevents the necessity of having extra safety measures. The variable braking systems allows the speed to be customized for individual users.

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