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## Application of Straight-Line Motion Mechanism to the Oar Motion Mechanism of Rowing Boat

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**Summary:** The Peaucelier Mechanism, that is one of straight-line motion mechanisms, and a parallel crank mechanism were combined, and the combined device was utilized in an oar motion mechanism of rowing boat for the aim of increasing the power of the oar blade. The comparison between the power of the oar blade of the conventional device and that of the improved device was discussed by obtaining force and velocity of the oar blade. It was found by the calculation that the improved device creates greater power of the oar almost around all range of oar angle, especially in the narrower angle or in the wider angle, than the conventional oar motion mechanisms. It is considered that the rowing angle of oar will be designed narrower, as possible, than 107 degrees.

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