

MODIFIED HANGER FOR INTENTION TREMORS

Problem and Problem Space

- Intention tremor - high amplitude tremor that worsens as target is reached
 - Impair ability to complete Independent Activities of Daily Living (IADLs)
- Laundry and hanging up clothes
 - Lack of solutions that reduce precision required

Situation of Impact Statement

Design device to be used by mid-life professionals with intention tremors to transfer formal clothing in a closet in a way that simplifies access to and fine motor-based placement of clothing in the closet.



[1]

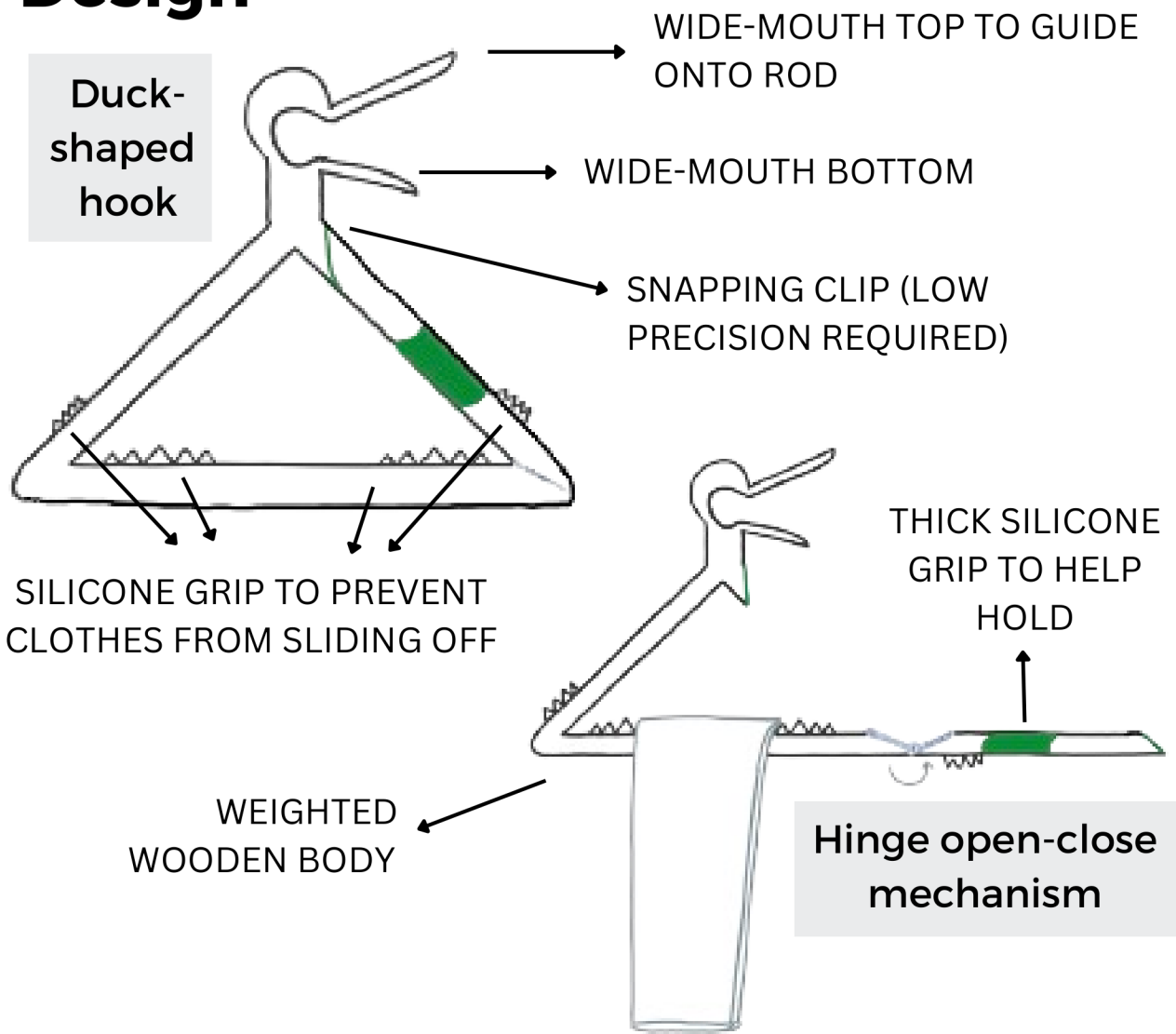


[2]

Solution

- Wide-grip, weighted hanger with wide-mouth funnel-shaped hook
 - Less fine-motor skills and dexterity to use
 - Stabilize tremor
- Promote independence; decrease frustration/discomfort for those with tremors

Design



Testing

Surveyed **10** users

60% strongly agreed that “The modified hanger prototype was **easy to use**”

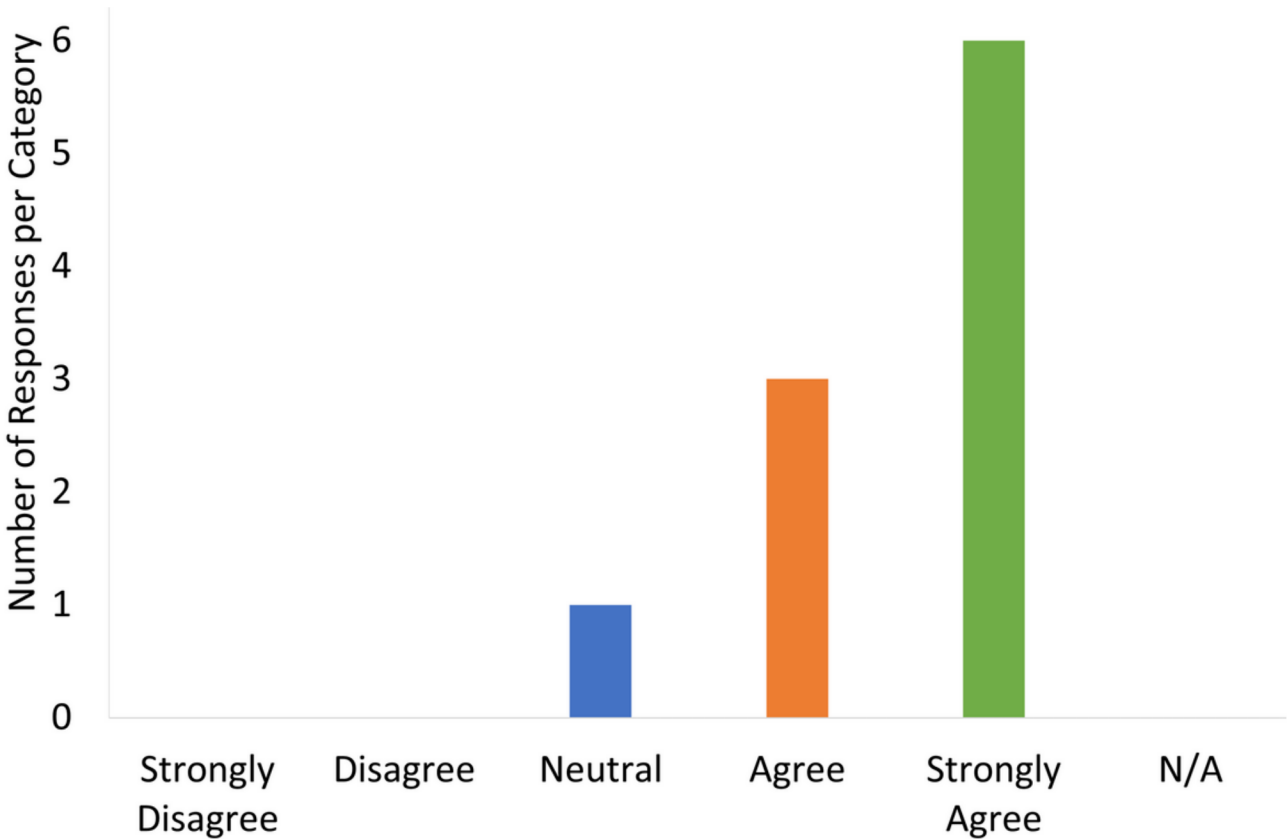


Fig. 1. Number of Responses Per Category for Ease of Use on Likert Scale. The bar chart depicts the responses of the ten different users based on their experience regarding the ease of use of the hanger during the four trials.

[1] “Tremor, trembling,” Shutterstock, <https://www.shutterstock.com/image-vector/tremor-trembling-shivering-hands-symptoms-various-1649575669>. [Accessed Dec. 1, 2023].

[2] “Business People Silhouette,” Clip Safari, <https://www.clipsafari.com/clips/o202261-business-people-silhouette>. [Accessed Dec. 2, 2023].