

Item Grabbing Walking Stick可拾取物品之拐杖

莊英慎, 宋志雲, 李冠儒, 許伯煒, 林柏豪, 謝佳修

企業管理學系

管理學院

ysjuang@chu.edu.tw

摘要

The elderly usually have poor back and hips in addition to reduced mobility. Bending down to pick up things from the ground is a painful process for many senior citizens. A claw device was incorporated into our walking stick so that users could pick up items without bending and reduce the risks of hurting their backs. A formal patent application had been submitted for this work. We are also carrying out negotiations for industrial collaboration.

1. Features:

- (1) Items dropped on the ground could be picked up by the elderly without bending over. It is designed to help care for senior citizens by helping them avoid the risk of injuring their bodies.
- (2) Multiple pincer claws also help provide additional support for the ground surface.
- (3) LED lights could provide night time illumination and reduce the risk of senior citizens from falling over due to insufficient lighting.

2. Technology

- (1) Multiple pincer claws could be activated using the connectors to carry out grabbing actions.
- (2) After grabbing the items, the multiple pincer claws would be retracted to their original positions via spring-action.
- (3) LED lights can be installed via a locking mechanism located at the handle.

關鍵字：claw device、walking stick