Walking-Cane Leg-Lifter

simple attachment to canes

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Disclaimer: NIST does not endorse companies or products.
Canes and Cane Accessories

- Canes are used for victim stabilization and/or minimized support
- Accessories are mostly wrist straps, stability bases, replacement rubber tips, and strap-type leg lifts.

- Foam Grip Replacement $5.95
- Ice Grip Attachment HS-32030 $11.00
- Cane Holder HS-10390 $9.95
- Wrist Strap $5.95
- Quad Replacement Rubber Tips $9.95
- Replacement Rubber Tips $3.00
- Able Tri Pod Base Only $27.00
- $16.00

- Additional accessory needed for people with one nearly-immobile leg
  - e.g., stroke or accident victims having minimal use of one leg
Leg Lifting with Canes

Concept
• Canes are typically used as compression devices for stabilizing and supporting human load
• Solid staff can also be used for tension loading
  – e.g., Leg Lifting for stroke and accident victims.
  – With a secondary lifting attachment capability as cane stabilizer
  – Lift tab could instead be made as a horizontal disk to lift leg from any cane rotate-angle without having to rotate cane
• Victim typically has upper body strength to lift objects

Pros
• Prevents caregiver back problems lifting leg for victim
• Victim increases mobility and independence
• Minimal training needed

Cons
• Extra tab at base could hook on objects unintentionally
• Victim may not learn concept initially or at all depending on cognizant state (e.g., stroke victims)
Cane Leg Lifter Attachment

Normal Walking Position (outside or forward)

Ready position (rotate inside toward foot)

Slide Lifter Under Foot

Use the cane to Lift the Foot !!

Ready position (rotate inside toward foot)