Professional DC Electric Powered Lawn Care Products

By:

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Echo Inc.

For:

ARB Off-Road Mobile Source Technology Review

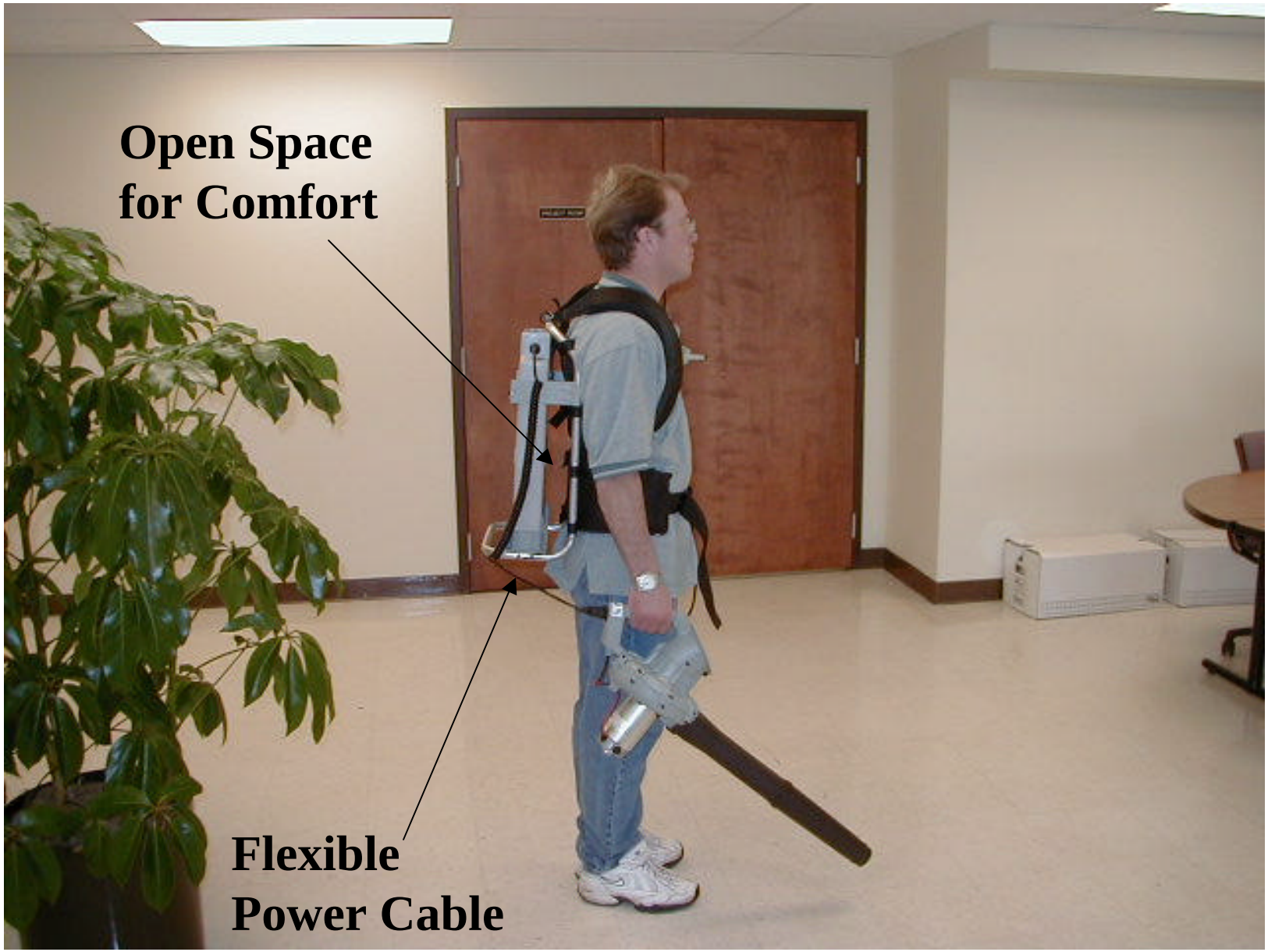
Design Requirements

- Safe
- Zero Emissions
- Quiet
- Professional
- Durable
- Portable
- Adaptable
- Comfortable
- Light Weight
- Powerful
- Long Running per Charge
- Variable Speed
- Cost Effective

Computer Controlled
NiMH Cartridge Battery
Left or Right Hand
Application

Comfortable
Carrying Frame

Shoulder Straps for Stability
Weight Carried on Hips

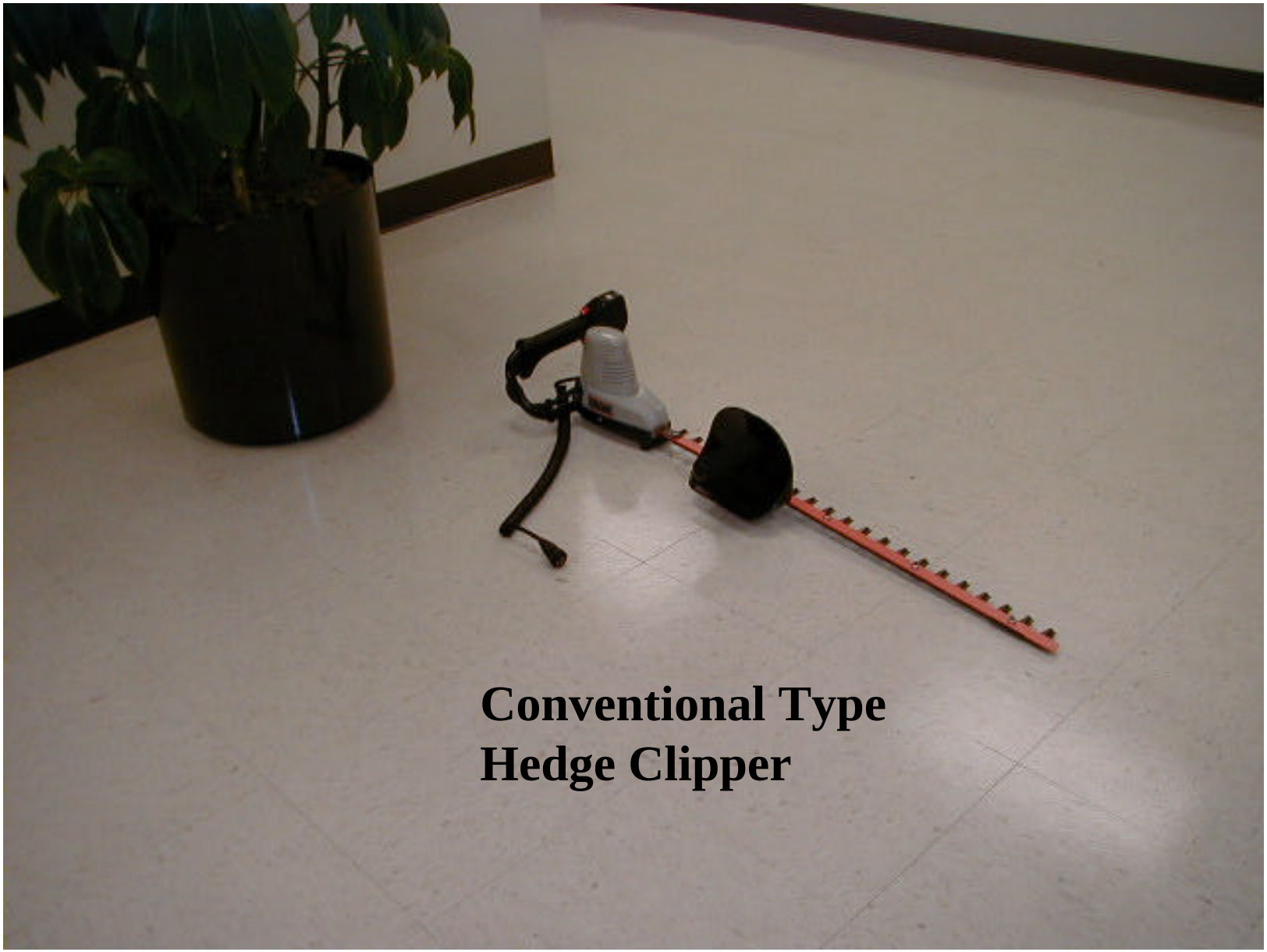

Open Space
for Comfort
Flexible
Power Cable

Hand Held Blower
56 dB(A) per ANSI B 175.2

Stick Tool
Power Head

Hedge Clipper
Power Pruner
String Trimmer
Articulating Hedge Clipper
Stick Edger

Dethatcher
Hedge Clipper
Power Pruner
String Trimmer
Broom
Tiller
Edger
Pro Attachment Series (PAS)



Conventional Type
Hedge Clipper

Status of Development

- Preliminary testing complete
- Second generation prototype complete
- Temporary tooling complete
- Market research study complete
- Not released for production
- No production tooling

Challenges and Concerns

- No clear path to market identified
- Battery cost too high
- High tooling cost, small market size
- Poor return on investment

Echo Incorporated