

Bag Holder for Attaching to Bins and Other Objects

An inexpensive, no-maintenance aluminum ring system secures recycling bags to existing trash receptacles, providing a space-saving and cost-effective waste disposal solution for large events.

For most large events, both trash and recycling receptacles are provided to ensure proper waste disposal. These bins must be stored when not in use. Therefore, compact receptacles would help cities and venues save space and money.

Researchers at Purdue University have developed an inexpensive, no maintenance alternative to recycling receptacles for large events. The product is an 8" aluminum ring with a 2" wide hook welded to the ring. This hook extends approximately 4.5" above the ring making it available for signage. This hook is made to secure the ring to a 55 gallon drum or other types of trash receptacles. The ring is made to hold a properly sized recycling bag (one that touches the ground for support). Metal or plastic clips connect the bag to the ring.

Advantages:

- Feasible solution for recycling bins
- Does not require additional storage space
- Does not require any additional maintenance

Potential Applications:

- Low-cost recycling for large events

TRL: 9

Intellectual Property:

Technology ID

2014-HOGG-66700

Category

GreenTech/Circular Economy &
Waste Reduction
Materials Science &
Nanotechnology/Advanced
Functional Materials

Authors

Michael J Gulich
Tamm Hoggatt
Verlin Lindley

Further information

Joe Kasper
JRKasper@prf.org

Nathan Smith
nesmith@prf.org

View online



Design Patent, 2014-01-17, United States

Keywords: Recycling receptacles, compact receptacles, waste disposal, large events, aluminum ring, bag holder, low-cost recycling, no maintenance, space saving, inexpensive alternative