Interstitial Tandem Brachytherapy Applicator

Tech ID: 34671 / UC Case 2026-628-0

BRIEF DESCRIPTION

An innovative brachytherapy applicator designed to deliver precise radiation to challenging gynecologic cancer sites while sparing healthy tissue.

FULL DESCRIPTION

This advanced brachytherapy device delivers targeted radiation to high-risk cancerous areas that are difficult to reach with conventional applicators. The innovation overcomes two limitations of existing vaginal cylinder applicators: failure to address disease in the immediate vicinity of the cylinder, and uniform instead of tumor-targeted dosage. The device has been fabricated and tested to demonstrate consistent performance with modern brachytherapy tools and aims to reduce side effects by minimizing radiation exposure to surrounding healthy tissue.

SUGGESTED USES

- Treatment of endometrial and vaginal cancers with HDR brachytherapy
- Gynecologic oncology radiation therapy centers and hospitals
- Medical device companies specializing in radiation oncology equipment

ADVANTAGES

- Targets high-risk cancerous areas while sparing healthy tissue in a precise manner
- Improves dose coverage in irregular or extended disease geometries
- Reduces side effects and promotes faster patient recovery
- Consistent fabrication and performance aligned with modern devices

PATENT STATUS

Patent Pending

CONTACT

Richard Y. Tun
tunr@uci.edu
tel: 949-824-3586.



OTHER INFORMATION

CATEGORIZED AS

- **Medical**
  - Devices
  - Disease: Cancer
  - Disease: Women's Health

RELATED CASES

2026-628-0

UCI Beall
Applied Innovation

5270 California Avenue / Irvine,CA
92697-7700 / Tel: 949.824.2683

© 2026, The Regents of the University of California
Terms of use
Privacy Notice