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# Methods and Devices Using Adjunctive Cooling to Minimize Inflammation and Tissue Damage During Prostatectomy

Tech ID: 21414 / UC Case 2009-540-0

## PATENT STATUS

| Country                  | Type          | Number    | Dated      | Case     |
|--------------------------|---------------|-----------|------------|----------|
| United States Of America | Issued Patent | 9,089,315 | 07/28/2015 | 2009-540 |

## BRIEF DESCRIPTION

Researchers at the University of California, Irvine have developed methods to attenuate inflammation and decrease tissue damage for patients undergoing laparoscopic prostatectomy through the use of cold irrigation to deliver preemptive local hypothermia; thus resulting in improved early post-operative urinary continence. Successful implementation has lead to the development of additional novel methods and devices that could improve upon current intraoperative and post-operative bladder cooling techniques as well as minimize collateral tissue damage in various surgical settings.

## SUGGESTED USES

These methods and devices may be used as intra- and post-operative tools to reduce collateral tissue damage and decrease patient recovery time.

## ADVANTAGES

These new methods and devices have a local and additive cooling effect so that tissue damage and inflammation are minimized during prostatectomy. These methods and devices also greatly improve a patient’s early post-operative urinary continence.

## STATE OF DEVELOPMENT

These devices and methods have been tested in patients.

## CONTACT

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## INVENTORS

- » Ahlering, Thomas E.
- » Finley, David S.

## OTHER INFORMATION

## CATEGORIZED AS

- » **Biotechnology**
  - » Health
- » **Medical**
  - » Devices
  - » Disease: Kidneys and Genito-Urinary System
  - » Other
  - » Rehabilitation
- » **Sensors & Instrumentation**
  - » Medical

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