

Tissue Clamps for Surgical Procedures

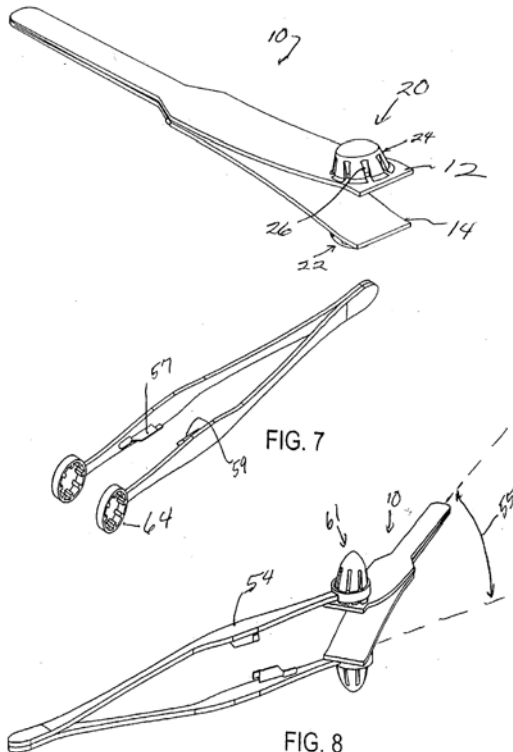
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Background

In vascular surgery, surgeons need to control the vessel undergoing treatment. The procedure requires clamps to temporarily or permanently occlude blood flow during the procedure and / to align tissue such as nerve endings. Existing forceps have limited abilities to manipulate and stably apply clamps. Hence there is an ongoing need for developing improved clamps for vascular surgical procedure to improve safety and ease of use.

Technology

UMass Medical School investigator Dr. Raymond Dunn has invented a novel tissue clamp and method for using the same. The clamp features a fixture (shown as 20 in Fig. below) that protrudes from the proximal end of the clamp. This feature allows the clamps to be grasped and securely placed about tissue such as an artery. This fixture can mate with a suitable tool for grasping the clamp. In addition the invention also conceives of plurality of clamps to be used in the surgical procedure.



Application

Medical Device for surgical procedures

Salient Features and Competitive Advantages

- 👍 **Unique Design:** allows the clamp to be firmly grasped and securely placed about the tissue
- 👍 **Accelerates Procedural Time,** a critically important criteria in surgical procedures
- 👍 **Broad Applicability.** Can be used for different surgical procedures,
- 👍 **Safety.** Provides a high level of safety. Decreases the chances of slipping out during the procedure
- 👍 **Ease of use.** Existing clamps are held by forceps for proper placement during the procedure. UMass technology simplifies this manipulation by combining the two properties in a single tool.

Business Opportunity

UMass OTM is seeking statements of interest from parties interested in licensing and/or sponsoring collaborative research to further develop, evaluate, or commercialize this technology.

Address

Kevin Lehman, PhD
Licensing Officer
Phone: (508) 856-5494
Fax: (508) 856-1482
E-mail: Kevin.Lehman@umassmed.edu;