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Local Inventor and Innoventor, Inc. Receive Patent for Lymphedema Treatment

St. Louis – A medical device that could aid over 6.5 million Americans and 250 million people worldwide who suffer from lymphedema and venous ulcers has received its second patent continuation in part from the United States Patent Office. This technology is an invention of local vascular surgeon Dr. Richard Kloecker in partnership with a St. Louis engineering company, Innoventor, Inc.

Lymphedema, commonly known as elephantitis, is a lymphatic system disruption that results in obstructed lymphatic flow, swelling, pain and susceptibility to infection. The condition is life-long and frequently worsens with age. It is classified as either primary (genetic defect) or secondary, which is developed after surgery or radiation therapy for various cancers.

Venous ulcers are caused by impaired drainage of blood from the legs by the veins. This is the most common type of ulcer of the lower extremities and is often caused by poor circulation. These ulcers are more prevalent in people over 65, thus the number of people with this condition is rising as the aging population rises.

Current treatment for both conditions is compression therapy by wraps, bandages or bulky mechanical compression devices. Treatments are confining, difficult to use, and negatively impacts the patient's quality of life. Many times patients abandon the treatment altogether opting to live with the pain of the condition.

The Kloecker technology is in the form of a sleeve for the arm, leg, or trunk of the body. It sets itself apart from the status quo products by providing a form-fitting pneumatic compression system that can apply preset local gradient pressures consistently throughout the day and night based on a physician's prescribed pressure regimen.

The sleeve design is a multi-section compression garment and is comprised of multiple, interconnected air cells as opposed to bladders or tubing. The Kloecker sleeve is sleek and allows the patient to carry on with everyday activities while wearing it. It can even be worn outside of the house as its compact battery design allows freedom from power outlets. External compression can be monitored easily and accurately through a patented micro mechanical pump developed by Innoventor to complement the technology.

To increase the availability of this important technology to patients who are looking for relief from nagging and dangerous wounds/pressure sores, Innoventor is extending this technology to wheelchair cushions, operating room table pads, and wound care sleeves. This unique design also has applications for burns to control hypertrophic scarring.

The technology is in its 3rd generation prototype stage. Innoventor is looking for investors to move this important technology to the millions of sufferers throughout the world.

For more information about the Kloecker technology, contact Innoventor, Inc. at 314-692-9998 or email solutions@innoventor.net .

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