



TECHNOLOGY OFFERING FOR:

RAPID VEIN HARVESTER (“RVH”)

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Key Words: Vein harvest, arterial bypass, CABG (coronary artery bypass grafts), vascular bypass

Background: Verivas Solutions Inc. is a recently formed incubator of innovative medical ideas and devices with a recently patented device called the “Rapid Vein Harvester” (RVH). RVH is an entirely new way of harvesting veins for vascular bypass procedures.

Current techniques for harvesting veins for bypass procedures are either endoscopic or open surgical vein excision. Both techniques are time-consuming to learn and perform. RVH is easy to learn and reduces vein harvest time, significantly reducing operative time, anesthesia duration, and associated risks.

Coronary arterial bypass and lower extremity bypass procedures are the most common life and limb saving surgical procedures performed worldwide and commonly utilize veins harvested from the patient’s legs. RVH builds on a wide array of evolving endovascular procedures within the field of Vascular Surgery, to supplement or replace complicated open surgical procedures, reducing associated risks, post-operative pain, and recovery times.

The Technology: RVH is unique in its utilization of percutaneous, endovascular, “over the wire” techniques utilizing specialized guidewires and catheters for vein inversion and excision to allow rapid, minimally invasive vein harvest.

Commercial Applications: Replace current vein harvesting techniques for bypass surgeries. More than 400,000 such procedures are performed annually in the US.

Advantages: Minimally invasive, easier to learn, and quicker to perform, reduced pain and associated complications. By eliminating surgical dissection, this approach decreases the likelihood of wound complications. Lastly, given its design with a simple catheter and guidewire system, the learning curve is minimal as opposed to open or endoscopic vein harvesting which often requires 6-12 months of supervised training to master.

Stage of Development: Planning prototype refinement and testing

Intellectual Property Information: Patent No.: US 11,471,140 B2; issued 10/18/2022

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