HIGH-PRESSURE (LOW-FLOW) PUMP INNOVATION

DEVELOPED AT THE SLOVAK UNIVERSITY OF TECHNOLOGY (STU)

BASIC TECHNOLOGY OUTLINE

MAJOR INNOVATION IN PUMP CONSTRUCTION

- This technology is a significant innovation of the construction of the two-stage high-pressure low-flow pump
- Notable benefits of this innovation is the considerable reduction in overall size and weight as well as increased reliability

TECHNOLOGY DEPLOYMENT

HIGH-PRESSURE PUMP WITH LOW FLOW

- The innovation is universally applicable everywhere, where the traditional high-pressure and low-flow pump is currently deployed. Additionally, this pump will be suitable for more challenging usage, where small size, small weight and high reliability are required.
- Industrial deployment of the innovated pump is advised, but not limited to the automotive, electro-technical, machine engineering or food-processing sectors. Examples of use include:
  - Fluid injection
  - Lubrication and greasing
  - Cooling of machining area
  - Precision substance dozing
  - Pressure cleaning
  - Reverse osmosis

ADVANTAGES OVER CURRENTLY USED SOLUTIONS

SIMPLIFIED, LOW-MAINTENANCE, RELIABLE

- Decrease in size by 50% to currently available pumps
- Simplified construction
- Significant weight decrease
- Significantly less sealing surfaces
- Less moving parts and components
- Considerable savings on material costs at production stage
- Handles solid particles
- Low maintenance
- Increased durability

TECHNOLOGY TRANSFER CENTRE SCSTI

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CURRENT STATUS OF TECHNOLOGY

PATENT PENDING

- Patent application is ready to be filed
- Prototype has been constructed and tested

CONTACT

PLEASE CONTACT US
FOR MORE INFORMATION

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TECHNOLOGY IS AVAILABLE FOR SALE OR LICENSING