

Technology Licensing

“SphinX – A Novel Stoma Management Device”

School of International Biodesign (SIB) is a Department of Biotechnology (DBT), Ministry of Science & Technology, Government of India supported Fellowship Programme centered at All India Institute of Medical Sciences (AIIMS) and Indian Institute of Technology, Delhi (IITD) in collaboration with International partners. DBT has engaged Biotech Consortium India Limited (BCIL) for comprehensive Intellectual Property Management and Technology Transfer/Licensing under SIB. Novel medical technologies are developed under SIB to promote innovation in affordable healthcare and to train the next generation of medical technology innovators in India. BCIL is pleased to announce the licensing of ‘SphinX– A Continent Stoma Management Device’ to provide a better way of evacuating intestinal excretions in ostomates.

Safe, secure, bag-less solution for managing colostomy

Unmet Need and Market Opportunity: Millions of people worldwide need to undergo intestinal surgery to treat gastrointestinal conditions like Colo-rectal Cancer, Ulcerative Colitis etc. These surgeries result in a procedure called ostomy in which the intestine is cut and the end is brought out through an opening on the abdomen called stoma. Stools now come out through this stoma instead of the natural orifice and the patient currently has to constantly wear a adhesive pouch/bag hanging from their abdomen to collect the faeces. None of the products in the market currently address the issues related to continence and the effort required in managing the stoma. Instead, the conventional base plate and pouch system lead to further problems like skin excoriation, dermatitis and pain. SphinX is a soft, pliable device that is inserted into the stoma and remains there for an extended period. It is designed to ensure no leakage of stool, ease of use and has a discreet profile. It provides the patient full control over evacuation of their bowels. As per the inventor, SphinX aims to address a \$2.2 billion global market and will significantly improve the quality of life of ostomates worldwide.

Key Features

Continent	Allows user to evacuate stools on his/her own will without changing it for a month
Safe & Secure	Adhesive free system provides freedom from skin related problems
Hassle Free	Requires changing the device only once in a month
Bag-Less	No more carrying around bulky bag filled up with stool

SphinX
Next generation stoma care



Patent Application No. 3697/DEL/2014 Design Registration No. 270006

The Device

SphinX is a soft and pliable device that is inserted into the stoma and creates a sleeve around the inside of the stoma portion of the intestine. The port on the outside can be plugged and thus re-creates continence. SphinX remains in intestine with the help of a robust anchoring mechanism and also creates a safe and secure seal to prevent any leakage of stool. The patient may open the plug at his/her convenience and evacuate the stool in a simple, cheap disposable bag. The insertable of device is made up of a soft biocompatible polymer that does ensures safety while insertion and during usage.


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 Health Care

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M/s. Crimson Healthcare Pvt. Ltd. is a startup company based in Delhi, founded by inventor, Mr. Pranav Chopra. Crimson Healthcare has been set up to innovate cutting edge solutions for various healthcare problems that can be addressed with advanced engineering and technology. The ostomy management device – SphinX, is a first step towards that endeavour. The company aims to complete development of the ostomy management system and launch the product in India by early 2020.

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Technologies Available for Licensing

1. Patient Transfer Sheet
2. An Integrated Cap for Neonatal Protection
3. Devices and Methods for Medical Prescriptions and Drug Referencing
4. Epi-Gastric bleeding Management Device
5. Intra-osseous device
6. Kangaroo Mother Care Kit
7. Kit for Medicine and Vaccine Delivery
8. Medical Sharps Tray
9. Mucous dislodging device
10. Sit-to-Stand Device
11. Trans-illumination Device
12. Aspiration Device
13. Posture Support Device

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