

My 101 inventions to make healthcare affordable to everyone

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Abstract

To make healthcare affordable to everyone, I started my research and developed more than 100 low cost inventions for the poor people. Following of my 25 inventions are for the first time in history of medicine. Flexible and rigid video laparoscopes, Flexible video laparoscope with 30, 45 and 60 degree mirror attachments, rigid ventilating video bronchoscope with forceps, Rigid ventilating video bronchoscope without forceps, adult rigid video cystoscope 24F, semi flexible thin video nephroscope, Rigid video nephroscope for PCNL, wireless laparoscopy and endoscopy device, laser tissue welding device, life force meter, Rigid video esophagoscope, Rigid video sigmoidoscope, Rigid video hysteroscope, Intravaginal video colposcope, Peritoneal laparoscopic microscope, Rigid video neuroscope, etc. These are produced at a record low cost of Rs. 5000-10,000 each. Other inventions which are first made in India are, articulating video laparoscope, 3D laparoscopy system, Capsule endoscopy device, VR magnifying loops, hydrophobic nano silicone coating, world's smallest video camera, video laryngoscope, laser lithotripter and laser cautery, Transcranial magnetic stimulation device (TMS), transcranial direct current stimulation device (tDCS), Intranasal laser therapy device, Machines for bronchial thermoplasty and Stretta procedure, Urodynamics and uroflowmetry device, CO₂ incubator, Portable and commercial O₂ concentrators, Central vacuum machine, Digital Stethoscope, Pathology video microscope, Ophthalmic video microscope, Microscope for microvascular surgery, USB Spectrometer, muscle stimulator, nerve stimulator, Hemodialysis machine, Partial ECMO machine, Harmonic scalpel and ultrasonic lithotripter and led light cord, 24 hour PH monitoring. I also set up stem cell laboratory and tissue culture laboratory at record low cost of Rs. 50,000. My future innovations are hands Free Robotic Camera Holder, Da Vinci Laparoscopic Robot like system, Cochlear Implant, Artificial Urethral Sphincter, A Digital Radiography system, Electron Microscope, A Laser Microscope with one million times magnification, Alternatives to antibiotics and antivirals, Tissue nano Transfection(TNT), Usb Pocket Ultrasound Machine, Cardiac catheterization Monitor, Portable MRI scanner, ESWL Machine, Gamma Camera (scintillation Camera), Positron emission Tomography, Terahertz camera Imaging System, Terahertz Tomography.

Biography

Sagar A Jawale is a pediatric surgeon turned into a scientist. He has more than 100 inventions done till date. He has 40 patents registered in Mumbai office. 25 of his inventions are for the first time in the history of medical sciences. He has developed 15 new operations and 30 new therapies in medicine which are under trial. Most of his research work is unique and reported for the first time in medical literature. His inventions are 20 to 50 times cheaper than peers, a great boon to the mankind. He has invitations from all over the world for the demonstration of his inventions. He has founded Vigyan Yog Foundation a research based no profit organization for distributing his inventions on no profit basis to doctors and medical institutions.

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