

Making Ideas Reality

 M.I.R. Making Ideas Reality LLC is an engineering service owned by Robert
 Banik. Robert has over 25 diverse years in the medical industry from startups
 to some of the largest device companies developing "what if" scenarios into prototypes and pushing to product launch in a hands on manner.

If your idea or team needs a spark, an engineering push, or your project needs an experienced hand to cut costs and time out or design verification... There is no substitute for experience.

Please take time to review a sample of the diverse history of Robert's successful experiences and consider him on your project team.....



- Custom Machine Design: belts-chains and drive components, S/S Sheet Metal part design, drawings, assembly and machine trial
- Plant layout drawings for equipment location and custom conveyors for Tasty Cake, Amerosa Bakery of Philly, Pepperidge Parms NY and All Pro Miami Dolphin John Offerhahl's for Offerdahl's Grill.







- Women's health care products;
 - Sterile Disposable Catheters (PP Extrusion, tipped skived side hole, PP plunger)
 - Stainless Steel hand instruments (custom designs per surgeons' requests)
 - Loop Electrode Designs and small batch manufacturing
- Corson Hysteroscopy White Paper Feature
 Design, test, vendor selection, build, scale up



- Veronikas Vault Elevator
 - Responsibility: Design, test, vendor selection, build
 - Outcome: Launched in 1997 Still Marketed Today



Teleflex®



1998-2001

- One of the oldest surgical instrument makers in the US , established 1814
- Surgical Instrument and Disposable Device Design and Project Team Lead

5mm Atraugrip Grasping Forceps

Jaw Design, Disposable Pad Design Manufacturing Process Development Launch 2000 US Patent 6,406,485

- AtrauGrip" Laparoscopic **Grasping Forceps** Concerned about tissue damage? 5mm and 10mm **Grasping Forceps** Pilling A THE REAL PROPERTY AND A CONTRACT OF THE REAL PROPERTY AND A CONT
- <u>Heart Stabilizer</u> Design, test, animal lab validation US Patent 6,063,021

<u>Shikani-French Speaking Valve</u> Design, test, Non Sterile -Launch <u>Still Marketed Today</u>





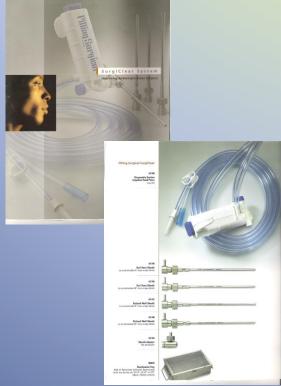




- SurgiClear; Sinus Surgery Irrigation and Suction
 - Responsibility: Design Reusable Sheaths & utilizing off the shelf trumpet valve system, Build, Test
 - Outcome: Successful Scale up in 2002 US Patent 6,679,834



| United States Patent (10) Patent No.: US 6,679,834 B Stabl et al. (45) Date of Patent: Jan. 20, 200 |
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| ENDOSCOPIC SUCTION-IRRIGATION 4-00.168 A 87160 Bookel et al. INSTRUMENT FOR SURGERY 4995.57 A * 3799 Meyer |
| Dist In Source Gene H, Suld, Collegavite, PN (US), Structure Gene H, Suld, Collegavite, Suld, S |
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| SLT, 147 Keystone Drive, Mongomeryville, PA 1893 Notice: Subject to any disclaimer, the term of this Clearline, 2 pages |
| patient is extended or adjusted under 35 U.S.C. 154(b) by 0 days. U.S.C. 154(b) by 0 days. |
| Appl. No.: 66/955,918 advantage, 2 pages. |
| Filed Sep. 19, 2001 * cited by examiner |
| Prior Publication Data Prisary Examiner—John Malcuby US 2012/082455 Ad Jun. 27, 2012 Astronom Examiner—Joseiyin Rum |
| (74) Attorney, Agent, or Firm-Heason and Howson Balanad U.S. Analization Data |
| Previsional application No. 60(234,807, filed on Sep. 22, (57) ABSTRACT |
| 2000 Alter US LC Autors Conference Autors Confer |
| US PATENT DOCUMENTS (227.600 A * 41073 Khin |
| |







Safeguard- Pressure Assist Device

- Responsibility: Project Leader, All Design, Test , in house IRB validation, Manufacturing Validation
- Outcome: Successful Scale-Up & Launch in 2003
- - Featured Products by Maguet Cardio. & Dielectrics Web-Sites 2003
 - US Patent 8,034,009 Still marketed by Merit Medical

| | US 20120029406A1 | | | | | |
|-------------------------------|---|--|----------------|---|--|--|
| | United States Patent Application Publication Bates et al. | | | (10) Path. No.: US (03) Path. Date: | 2012/0029406 A1 Feb. 2, 2012 | |
| 54) | DEVICE AND METHOD FOR COMPRESSING WOENDS | | | Jan. 26, 2005, now abundened, which is a continuation of application. No. 16/397,785, filed on Mas. 25, 2009 new abundened. | | |
| (75) | leases: | James S. Bates, Speria, NJ (US); John F. Budris, Cheshire, CT (US); Robert Banik, Long Valley, NJ (US) | (90) | Provisional application N 27, 2002. Publication Cl | o. 68/568,083, filed on Mar anifection | |
| (73) | Assignee | MAQUET CARDIOVASCULAR LLC, Wepne, NJ (US) | | | 995.01) | |
| (21) | Appl.No.: | 15069.257 | (57) | | | |
| 22) | Tiel: | Oct. 7, 2011 | inche defin | A dressing for applying compression to a worad in a patient includes a bladder having a non-deformable and wall and deformable membrane. The dressing may include a feedble | | |
| Related U.S. Application Data | | | 44.4 | could be be before as as it | one side thereo f for securing hold the bladder against the | |
| (0) | | of application No. 12480,799, filed on 6, now Pat. No. 8,034,099, which is a of application No. 113040,599, filed on | peter | priors's date. Upon inflation, the deformable membrane projects towards the particit's data and eners-pressure on the wound to reduce the flow of biood from the wound. | | |



Introducing Safeguard. Real pressure. Real security. Real comfort.





atascope







• On-Site;

- Responsibility: ½ Project Leader, Design, Test, Full Clean Room Process Design / Layout, Manufacturing Validation,
- PU Blow Molded Balloon, Bonding, Nitinol Basket Potting, Micro Laser Welding

ON-SITE SPECIFICATIONS

10.5 French Tissue Tract Diator 10.5 French Collagen Delivory. System containing & 45-60mg plug of putfied boxine Collagen

ORDERING INFORMATION

Datascope

- Outcome: Product Launched 2006





- On-Site; over the wire collagen femoral closure device
 - Process Design / Layout , Manufacturing Fixture Design
 - Polyurethane Balloon Design Stretching & Bonding,
 - Nitinol wire basket design/ scale up



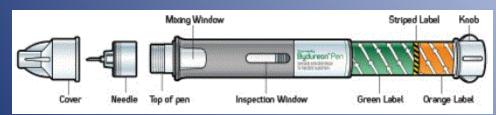




Becton Dickinson & Company

Diabetes Care Division

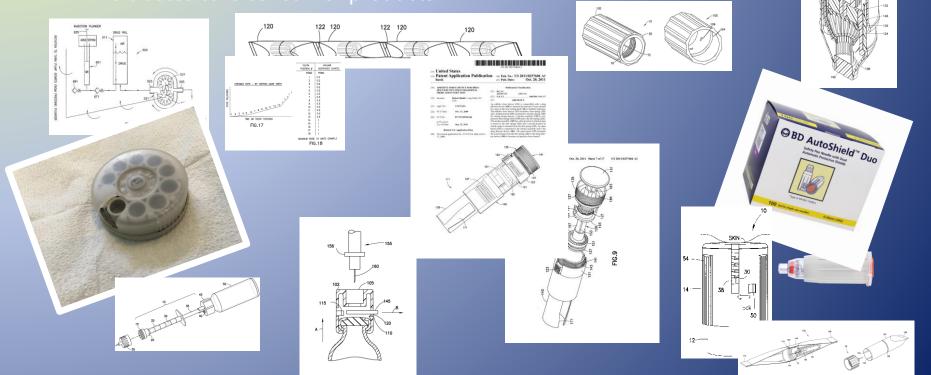
Lead Design on a Custom Pen Needle Hub/Needle/Animal Labs/Cap Needle Glue Well/Impact Testing Responsibility: All design, UV Needle Bonding, Corona, testing, verification, MSA Outcome: Built 3 million for inventory Product Launch, millions sold Process Development UV Adhesive Dispensing / Corona Treatment / Needle Iubrication







 Over 20 patents issued pertaining to injection products, packaging, diabetes care consumer products





- Novel Patents issued for Luer Access Devices Disinfectant Products
- Design and Scale Up of Silicone / COP Syringe for Potency Sensitive Drugs
- Test Fixture Design for DV and MFG/QA Inspections
- Development Hot Melt Process





2015-Present

MIR LLC Developed a Manufacturing Process for RFID Tag Application
 Sterile and Non-Sterile Products Syringe Accessories
 (Corona treatment / label machine design / test method / specification development)

Defensive Intellectual Property Both Design & Manufacturing Facilitating the growing pharmaceutical industry

Many Patents Issued and Pending on Novel Syringe Tamper Evident Accesse Various Phases of Development







Novel Female Urinary incontinence device

- MIR LLC Worked with a prominent local gynecologist /surgeon to develop prototypes of a novel device concept
- Conducted 2 successful cadaver labs in 2020/2021 in Miami to demonstrate proof of concept and create investor videos
 - Prototypes included custom tubing forms / handle design / metal anchor/ barbed suture / breakaway sheath concepts
 - Intellectual property included active barbed suture designs





Making Ideas Reality

Robert Banik

1991 BS Mechanical Engineering, The College of New Jersey (Trenton State)

2008 MS Mechanical Engineering, Integrated Product Development, Stevens Institute of Technology

2012 Mini MBA Cert. Finance, Rutgers

Robert has attended professional development programs by the ASME and universities such as MIT

Robert has over 35 patents and many more pending spanning 7 companies

Robert's work has been sited over 550 times

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