



Robert M. Isackson  
Representative Technology Experience

Pharmaceuticals	Biotech	Medical Devices
Ciprofloxacin	Monoclonal antibodies and hybridomas, use as fluorescently tagged discriminators and as drug payload delivery vehicles;	Laser flow cytometers;
Prostaglandins for the preparation of an ophthalmic composition for the treatment of glaucoma or ocular hypertension (Travatan Z®- travoprost ophthalmic solution);	Bispecific antibodies	Laser optics and detection (light, scatter, fluorescence) systems; Particle counters;
Ranitidine;	Plant genetics, biochemistry, physiology, regeneration, transformation, and breeding;	Fluid control systems and cells for chemical (blood) analysis including conduits, check valves, bubble detection, pumps;
Argatroban;	DNA sequencing;	Robotics for fluid sample handling in a chemical analyzer;
Oncaspar®;	Codon modification;	Oximeters and non-invasive sensors for red/IR light transmission detection;
Injectable drug delivery formulations;	Genetic engineering of cells;	Non-invasive and minimally invasive glucose detection;
Extended release formulations;	Vectors, promoters;	CO2 detectors;
Apomorphine compounds;	Synthetic blood;	Hearing screening devices including otoacoustic emission based devices;
Xylosolv;	RNA, RNAi, sRNA	Earphones;
Venetoclax (BCL2 inhibitor).	Polymerase Chain Reaction devices, amplifiers, primers, probes, Digital PCR, microfluidics;	Thermally-autoregulated hemostatic instruments;
	Fertile transgenic crops (corn, soy, cotton, canola, tomatoes);	Trocars;
	Insect resistant cotton;	Surgical Staplers;
	Herbicidal and insect resistant crops (monocots and dicots);	Cardiac rhythm management devices (implantable pacemakers and defibrillators, remote programmers and monitors), cardiac leads, and communications technologies, including hardware, batteries, software and algorithms for cardiac rhythm analysis and programming for therapy delivery;
	Alfalfa germplasm.	Cardiac assist pumps;
	Tie-2 agonists and HPTPβ inhibitors	Digital orthodontics and treatment planning and digital dentistry for crown and bridge prosthetics and CAD/CAM production;
		Angiographic catheters;
		Portal vein catheters;
		Spinal implants; Truss structures for bone implants
		PCR amplifiers, reagents;
		Minimally invasive surgical tooling;

		Tissue discrimination based on optical properties;
		Brainwave feedback control;
		Surgical navigation tools and hardware;
		Ultrasound machines;
		Sleep apnea detection;
		Metered dosage inhaler devices;
		Electrohydrodynamic pulmonary delivery systems;
		Disinfecting port protectors;
		Subcutaneous infusion needle sets;
		Needle inserter devices;
		prosthetic implant delivery devices.
		Noninvasive detection of blood analytes using spectrographic detection of Raman signals

Consumer Care	Diagnostics	Nutraceuticals
Cough/cold remedies and formulations including <i>inter alia</i> antihistamines, decongestants, analgesics, excipients, fillers, binders;	Reagents (various) for heterogenous and homogenous immunodiagnostic assays, related instrumentation;	Plant extracts (maca, ginseng, rosemary (carnosic acid), Ash (fraxineum), green coffee (svetol), grape ( <i>Vitaceae</i> ), and ginko); Capsaicin;
Analgesics, including propionic acid NSAIDS;	Magnetic particle separation;	Cocoa polyphenols and flavanols;
Coatings and multilayer coatings;	PSA (free and complexed) assays;	Collagen II from chicken cartilage
Extended release formulations;	BRCA1 and BRCA2 assays;	Chaga extracts.
Fast dissolve formulations;	Blood chemistry analysis instrumentation for high throughput diagnostic assays and testing;	
Anti-snoring devices;	Liquid handling systems and robotics (hardware and software) for preparing, processing and analyzing samples and related data acquisition and management, including microfluidics, unitary flow cell systems, reagents, colorimetry and spectrometry analysis for such diagnostic instruments;	
Bottle designs for OTC nasal spray and ophthalmic solutions;	Quadrupole and ionic-trap mass spectrometers.	
Systems for dispensing medication;		
H2 blockers;		
Effervescence antacid formulations;		
Multivitamin formulations;		
Softgel capsule fill formulations;		

Excipient compositions comprising microcrystalline cellulose and silicon dioxide;		
Aerosol compositions for therapeutic cooling of tissue;		
Dry powder inhaler devices;		
Brushes for cosmetics.		

Material Science	Computer/ Software	Business Methods
Silicones for medical applications;	Massive parallel processing hardware, firmware and software;	Patient data collection, organization and presentation;
Copper foil laminates for printed circuit board manufacture;	Secured internet transactions;	Patient compliance systems;
Multilayer composite materials for airplane components;	Data encoding with error detection and correction;	1-800 telephone answering service systems and telephone call forwarding;
Electrochromic materials;	Two dimensional bar code creation, detection, encoding, redundancy, encryption and decoding, including DATA MATRIX, PDF417 and QR code symbologies;	Income tax preparation software and tax strategies;
Ceramic materials for circuit substrates and other structures;	Database creation, manipulation, modifying and file format harmonization for publishing;	Internet transactions;
Silicon carbide for semiconductors; Amorphous polysilicon for solar energy;	Mobile workforce scheduling and dispatch using determinative and genetic algorithms;	Internet advertising;
Electrochemiluminescent substances;	Mail tracking and routing software;	Consolidated billing and payment systems;
Hypoxic air for fire suppression;	Music Playlists for mobile phones and devices;	Financial planning using Monte Carlo simulation;
Plastic fuel tank technology (multilayer extrusion, twin sheet blow molding);	CODECs for wireless communications;	Leasing for automobiles via internet;
Subfloor structures for helicopters;	Customizing web pages for mobile devices;	Anonymous electronic payment systems;
Nafion® PFSA membranes.	Audience Measurements and Analytics for outdoor advertising systems;	Computer implemented method of establishing a location-based social network.
Chemically strengthened Li glass	Monitoring cross device usage for targeted advertising.	



Miscellaneous and Consumer Products
Expandable luggage;
Multimedia centers for automobiles;
Blue Tooth remote speaker systems;
Optical switches, multiplexors and amplifiers for optical communication transmission lines;
Automotive fuel tanks (low emission structures, assembly and components)
Automotive fuel vapor purge and recovery systems;
Motor drive systems for low speed vehicles;
Axial flux electric motors for torpedoes and hybrid vehicles;
Touch screen technology for mobile devices;
Slipper socks;
Aseptic container board and package making machines;
High through-put testing equipment for polymer films;
Portable garment drying devices;
Non-slip hangers.
Road construction equipment for conveying loose particles and widening road surfaces.
Photocopy and printing machines, including paper feed and handling mechanisms, print technologies. Duplex printing mechanisms.
Vape detecting devices
Noise (bullying, gunshot) detecting devices.
Arctic survival suit construction and manufacturing technology.
Insulated tents and hammocks.
Weighing machines for packaging loose granular products into uniform weight containers