

James W. Kronberg
Owner and Founder, VantorBridge, LLC
108 Independent Blvd., Aiken, SC 29803
Phone 803-652-2741 Email: contact@vantorbridge.com
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Issued United States Patents.

Each entry below shows the U.S. patent number, issue date, title, co-inventors (if any), and assignee. Unless co-inventors are shown for a given patent, I was the sole inventor. Where an asterisk (“*”) is shown after the issue date, it shows the patent was also filed internationally and other issue dates and patent numbers may apply elsewhere.

PDF copies of all patents listed below, as published by the U.S.P.T.O., can be found at www.freepatentsonline.com/xxxxxxx.pdf, where “xxxxxxx” in each case is replaced by the actual seven- or eight-digit patent number excluding the commas.

Other patents are pending, but client confidentiality protects all details.

<u>Patent #</u>	<u>Issue Date</u>	<u>Title, Co-inventors (if any) and Assignee</u>
4,945,953	08/07/90	Surface Mount Component Jig (DOE)
4,952,892	08/28/90	Waveguide Impedance Matching Method and Apparatus (DOE)
4,979,397	12/25/90	In-Line Rotating Torque Sensor with On-Board Amplifier (DOE)
5,030,011	01/11/91	Mixing Blade System for High-Resistance Media (DOE)
5,039,978	06/13/91	Analog Graphic Display Method and Apparatus (DOE)
5,046,371	09/10/91	In-Line Rotating Capacitive Torque Sensor (DOE)
5,054,023	10/01/91	"Smart Watchdog" Safety Switch (DOE)
5,119,014	11/08/91	Sequential Power-Up Circuit (DOE)
5,143,149	09/01/92	Wastewater Heat Recovery Apparatus (DOE)
5,147,471	09/15/92	Solder for Oxide-Layer-Building Metals and Alloys (DOE)
5,157,426	10/20/92	False Color Viewing Device (DOE)
5,157,465	10/20/92	Universal Fiber-Optic C.I.E. Colorimeter (DOE)
5,159,318	10/27/92	Universal Single-Point Liquid Level Sensor (DOE)
5,189,359	02/23/93	Solid State Safety Jumper Cables (DOE)
5,198,870	03/30/93	Atomic Line Emission Analyzer for Hydrogen Isotopes (DOE)
5,204,671	04/20/93	Random One-of-"N" Selector (DOE)
5,217,009	06/08/93	Compact Biomedical Pulsed Signal Generator for Bone Tissue Stimulation (DOE)
5,245,619	03/08/93	Generation of Low-Divergence Laser Beams (DOE)
5,251,490	10/12/93	Ultrasonic Fluid Flow Measurement Method and Apparatus (DOE)
5,259,382	05/21/93	Optical Transcutaneous Bilirubin Detector (DOE)
5,296,715	12/28/93	Optically-Isolated Signal Coupler with Linear Response (DOE)
5,314,735	05/24/94	Surface Coating for Prevention of Crust Formation (DOE)
5,315,884	05/31/94	Capacitive Proximity Sensor (DOE)
5,316,649	03/03/94	High-Frequency Reference Electrode (DOE)
5,317,253	02/09/94	Concealed Wire Tracing Apparatus (DOE)

5,334,847	05/09/94	Composition for Radiation Shielding (DOE)
5,388,446	02/14/95	Method and Apparatus for Container Leakage Testing (DOE)
5,405,231	04/11/95	Conveyor with Rotary Airlock Apparatus (DOE)
5,405,588	04/11/95	Process for Removing Cadmium from Scrap Metal (DOE)
5,413,596	11/22/94	Digital Electronic Bone-Growth Stimulator (DOE)
5,424,731	06/13/95	Remote Two-Wire Data Entry Method and Device (DOE)
5,431,148	07/11/95	Immersible Solar Heater for Fluids (DOE)
5,463,377	10/31/95	Apparatus for Detecting the Presence of a Liquid (DOE)
5,499,529	03/19/96	Detecting Small Holes in Packages (with JR Cadieux) (DOE)
5,499,597	03/19/96	Optical Temperature Indicator Using Thermochromic Semiconductors (DOE)
5,547,283	08/20/98	Optical Temperature Sensor using Thermochromic Semiconductors (DOE)
5,722,290	03/03/98	Closed-Field Capacitive Liquid Level Sensor (DOE)
5,772,328	06/30/98	Optical Temperature Sensor using Thermochromic Semiconductors (DOE)
5,860,711	01/19/99	Isolation Enclosure (with KW Haerer; Equitech Intl.)
6,011,994	01/04/00	Multipurpose Biomedical Pulsed Signal Generator. (Equitech Intl.)
6,121,716	09/19/00	Apparatus and Method for Prevention of Cracking in Welded Brittle Alloys (with RM Younkins) (DOE)
6,321,119	11/20/01	Pulsed Signal Generator for Bioelectric Stimulation and Healing Acceleration (Equitech Int'l)
6,417,651	07/09/02	Digitally-Controlled AC Voltage Stabilizer (Equitech Intl.)
6,535,767*	03/18/03	Apparatus and Method for Bioelectric Stimulation, Healing Acceleration and Pain Relief (Healthonics, Inc.)
7,117,034*	10/03/06	Apparatus and Method for Bioelectric Stimulation, Healing Acceleration, Pain Relief, or Pathogen Devitalization (Healthonics, Inc.)
7,840,272*	11/23/10	Methods for Modulating Osteochondral Development Using Bioelectrical Stimulation (with TM Ganey and SL Gordon; Healthonics, Inc.)
8,159,312*	04/17/12	Method and System for Signal Coupling and Direct Current Blocking (MedRelief, Inc.)
RE43,374*	05/08/12	Apparatus and Method for Bioelectric Stimulation, Healing Acceleration and Pain Relief (reissue of 6,535,767; MedRelief, Inc.)
8,785,196*	07/22/14	Methods for Modulating Osteochondral Development Using Bioelectrical Stimulation (with TM Ganey and SL Gordon; MedRelief, Inc.)
8,960,440*	02/24/15	Blister Pack Content Usage Monitoring (VeriMed Holdings, LLC)
9,630,001*	04/25/17	Methods for Modulating Osteochondral Development Using Bioelectrical Stimulation (with TM Ganey and SL Gordon; MedRelief, Inc.)

9,845,452*	12/19/17	Methods for Modulating Osteochondral Development Using Bioelectrical Stimulation (with TM Ganey and SL Gordon; MedRelief, Inc.)
9,981,411*	5/29/18	Structural composition and method (with GE Green; Marhaygue, LLC)
10,317,074	6/11/19	Hand-held medication and electronic waste incinerator (with BP Hamilton and LA Hamilton; Mini Incinerator, LLC)
10,544,388*	1/28/20	Methods for Modulating Osteochondral Development Using Bioelectrical Stimulation (with TM Ganey and SL Gordon; MedRelief, Inc.)