

Patent Number	Name(s) on Patent	Title of Patent	License Status
4,677,978	Melker	Emergency cricothyrotomy system and cricothyrotomy kit	Licensed
4,702,241	Gravenstein JS, Lampotang	Self-contained jet pump breathing apparatus	Not Licensed Inactive
4,928,687	Lampotang, Banner, Gravenstein D, Gravenstein N, Gravenstein J Gravenstein D, Gravenstein N, Lampotang	CO.sub.2 diagnostic monitor Method for noninvasive intermittent and/or hemoglobin, arterial oxygen content, and hematocrit determination	Not Licensed Inactive
5,101,825	Lampotang	Arterial/venous fluid transfer system	Not Licensed
5,135,492	Melker	Arterial/venous fluid transfer system	Not Licensed
5,156,159	Lampotang, Banner, Gravenstein D, Gravenstein N, Gravenstein J	CO.sub.2 diagnostic monitor with rupturable container	Not Licensed Inactive
5,158,558	Melker	Needle-shielding fluid transfer device	Not Licensed Inactive
5,180,896	Gibby, Gravenstein N, Lampotang	System and method for in-line heating of medical fluid	Not Licensed Inactive
5,203,771	Melker	Arterial/venous fluid transfer system	Not Licensed Inactive
5,242,410	Melker	Wireless high flow intravascular sheath introducer and method	Inactive
5,250,038	Melker	Multiple lumen vascular access introducer sheath	Not Licensed Inactive
5,322,165	Melker	Sharp instrument encasement system	Inactive
5,328,480	Melker	Vascular wire guide introducer and method of use Method and apparatus for simulating neuromuscular stimulation during medical surgery	
5,391,081	Lampotang, Good, Gravenstein JS		Licensed
5,431,655	Melker	Intraosseous needle	Licensed
5,484,442	Melker	Intraosseous needle	Licensed Not Licensed
5,523,075	Melker	Materials and methods utilizing a temporary visual indicator	Inactive Not Licensed
5,532,029	Melker	Materials and methods utilizing a temporary visual indicator	Inactive

5,560,351	Gravenstein D, Gravenstein N, Melker	Transtracheal energy application and sensing system for intubation: method and apparatus	Not Licensed Inactive
5,584,701	Lampotang, Good, Gravenstein JS	Self regulating lung for simulated medical procedures	Licensed
5,599,303	Melker	IV administration apparatus	
5,601,559	Melker	Intraosseous needle	
5,628,305	Melker	Universal ventilation device	
5,769,641	Lampotang, Good, Gravenstein JS	Apparatus and method for synchronizing cardiac rhythm related events	Licensed
5,772,442	Lampotang, Good, Gravenstein JS	Apparatus and method for simulating bronchial resistance or dilation	Licensed
5,772,443	Lampotang, Good, Gravenstein JS	Apparatus and method for detecting and identifying a drug	Licensed
5,779,484	Lampotang, Good, Gravenstein JS	Apparatus and method of stimulating breathing sounds	Licensed
5,837,645	Melker	Materials and methods utilizing a temporary visual indicator	
5,868,579	Lampotang, Good, Gravenstein JS	Apparatus and method for simulating lung sounds in a patient simulator	Licensed
5,882,207	Lampotang, Good, Gravenstein JS	Apparatus and method for quantifying fluid delivered to a patient simulator	Licensed
5,887,611	Lampotang, Melker	Gas blender	Not Licensed
5,890,908	Lampotang, Good, Gravenstein JS	Apparatus for and method of simulating the injection and volatilizing of a volatile drug	Licensed
5,941,710	Lampotang, Good, Gravenstein JS	Apparatus and method of simulating the determination of continuous blood gases in a patient simulator	Licensed
5,997,891	Melker	Materials and methods utilizing a temporary visual indicator	
6,000,396	Melker, Banner, Euliano, Lampotang	Hybrid microprocessor controlled ventilator unit	Licensed
6,074,345	Melker, van Oostrom	Patient data acquisition and control system	Licensed
6,102,868	Banner	Method and system for measuring the cardiac output of a living being	Licensed
6,115,523	Gravenstein D, Lampotang, Melker	Plastic optical fiber airway imaging system	Not Licensed
6,131,571	Gravenstein JS, Lampotang, van Oostrom	Ventilation apparatus and anesthesia delivery system	Not Licensed

6,135,105	Lampotang, van Oostrom	Lung classification scheme, a method of lung class identification and inspiratory waveform shapes	Not Licensed
6,161,537	Gravenstein D, Gravenstein N, Lampotang, Melker	Transtracheal energy application and sensing system for intubation: method and apparatus	Not Licensed
6,273,728	Lampotang, Good, Euliano, Gravenstein JS	Life support simulation system simulating human physiological parameters	Not Licensed
6,322,498	Gravenstein D, Melker, Gabrielli, Lampotang	Imaging scope	Not Licensed
6,370,419	Lampotang	Method and apparatus for triggering an event at a desired point in the breathing cycle	Not Licensed
6,390,091	Banner, van Oostrom, Melker	Method and apparatus for controlling a medical ventilator	Licensed
6,535,714	Melker, van Oostrom	Method, system, and apparatus for medical device training	Not Licensed
6,567,686	Melker, van Oostrom	Method for improving lung delivery of pharmaceutical aerosols	
6,597,939	Lampotang	Method and apparatus for coordinating an event to desired points in one or more physiological cycles	Not Licensed
6,620,850	Martynyuk, Dennis, Glushakov, Sumners, Phillips	Materials and methods for treatment of neurological disorders involving overactivation of glutamatergic ionotropic receptors	Not Licensed
6,623,765	Dennis, Gravenstein N, Modell, Morey, Shah	Microemulsion and micelle systems for solubilizing drugs	Licensed
6,638,537	Dennis, Gravenstein N, Modell, Morey, Shah	Microemulsion and micelle systems for solubilizing drugs	Licensed
6,796,013	Melker, Matthew	Tools for installation and repair of sprinklers	
6,796,305	Banner, Blanch, Euliano, Principe	Ventilator monitor system and method of using same	Licensed
6,800,458	Nick, Rogers, Valentine	Manganese superoxide dismutase regulatory elements and uses thereof	
6,820,618	Banner, Blanch	Method and apparatus for nullifying the imposed work of breathing	
6,909,912	Melker	Non-invasive perfusion monitor and system, specifically configured oximeter probes, methods of using same, and covers for probes	Optioned
6,915,804	J Melker, R Melker	Tracheotomy surgical device	Not Licensed
6,921,267	van Oostrom, Meka	Lung simulator for an integrated human patient simulator	Not Licensed

6,974,706	Melker, Dennis	Application of biosensors for diagnosis and treatment of disease	Licensed
6,976,487	Melker, Banner, Lampotang, N. Euliano, Caravano	Ventilatory method utilizing body length based parameter calculations	Licensed
6,977,171	Dennis, Martin, Morey, Partch, Shah, Varshney	Detoxification and decontamination using nanotechnology therapy	Not Licensed
6,981,947	Melker R	Method and apparatus for monitoring respiratory gases during anesthesia	Licensed
7,024,235	Melker R, Gravenstein JS, Worley	Specifically configured nasal pulse oximeter/photoplethysmography probes, and combined nasal probe/cannula selectively with sampler for capnography, and covering sleeves for same	Optioned
7,051,736	Banner, Blanch, N. Euliano	Endotracheal tube pressure monitoring system and method of controlling same	Not Licensed
7,052,468	Melker, Gold	Method and apparatus for deteting environmental smoke exposure	Licensed
7,052,854	Melker, Hayes, Wang, Dennis	Application of nanotechnology and sensor technologies for ex-vivo diagnostics	Not Licensed
7,066,173	Banner, Blanch, Euliano, Principe	Medical ventilator and method of controlling same	

PATENT APPLICATION PUBLICATION

2003/0010339	Banner, Blanch	Method and apparatus for nullifying the imposed work of breathing
2004/0081587	Melker, Lampotang, Silverman	Marker detection method and apparatus to monitor drug compliance

EUROPEAN PATENTS

WO 01/000264	Banner, Blanch, Euliano, Principe	Ventilator monitor system and method of using same
WO 2004/01976	Euliano, Brennan, Blanch, Banner	Method and apparatus for predicting work of breathing