

PULSE WAVE GENERATOR FOR CARDIOPULMONARY BYPASS AND EXTRACORPOREAL OXYGENATION APPARATUS

SUMMARY:

Dr. Craig J. McCotter, a recent graduate of East Carolina University's School of Medicine, has conceived and developed a prototype in-line pulse generator that is both simple and cost effective for continuous-flow cardiopulmonary bypass (CPB) systems and extracorporeal membrane oxygenation systems. To date, animal studies performed by ECU's Department of Surgery have demonstrated that the system not only works effectively, but also promotes perfusion to various organ systems while reducing complications associated with non-pulsatile CPB systems.

POTENTIAL AREAS OF APPLICATIONS: Cardiopulmonary bypass apparatus and extracorporeal oxygenation apparatus.

MAIN ADVANTAGE OF INVENTION: Construction of the system is simple and cost effective; promotes perfusion to organ systems.

STATE OF DEVELOPMENT: In vivo studies completed.

FURTHER R & D REQUIRED: Product development is required for human studies.

LICENSING POTENTIAL: University seeks research & development partners.

PATENT STATUS: Issued U.S. Patent No. 6,620,121

DISCLOSURE: Detailed description of data may be made available upon execution of a confidential disclosure agreement.

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