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New Uscom BP+ US Patent

Applications in hypertension, heart failure and vascular Health

SYDNEY, Australia, Monday 6th March 2017: Uscom Limited (ASX code: UCM) (the **Company** or **Uscom**) has received a Notice of Allowance from the United States Patent Office for a new method and apparatus patent related to its novel Uscom BP+ supra-systolic oscillometric central blood pressure monitor.

The patent describes a novel method and apparatus for producing a central pressure waveform in an oscillometric blood pressure system, and is central to the technology within the Uscom BP+ central blood pressure monitor. The patent was assigned the application number 15/224,821 and was filed on 1st August 2016, with a confirmation number 3711, and provides a 20 year period of commercial protection from the date of filing.

The patented technologies within Uscom BP+ improve the measurement of blood pressure, a fundamental clinical measurement of circulation, and represent some of the most advanced and innovative of cardiovascular technologies. The central pulse pressure wave measurements generated by the BP+ have application in the diagnosis and management of hypertension, heart failure and vascular health and have only previously been available using cardiac catheters. In children the device has been called the “non-invasive arterial line” for its potential to replace currently used arterial pressure catheters.

The BP+ measures central and brachial blood pressure and pulse pressure waves using supra-systolic oscillometry and is currently in regulatory review for approval for sale into China, Europe and the USA, with a number of new partnerships being negotiated for international distribution. By measuring directly into the aorta rather than measuring the arm BP, the Uscom BP+ provides potentially improved blood pressure monitoring measurements, and the devices has been invasively validated against catheters in children and adults.

Executive Chairman of Uscom, Associate Professor Rob Phillips said, *“Patents are real value for shareholders and recognition of innovative and practice leading science. We see the Uscom BP+ and BP+ Reporter as the disrupting technologies for blood pressure, heart failure and critical care monitoring, and this new patent adds to the others in our BP+ suite. The BP+ is currently deployed on the International Space Station to provide novel insights into the cardiovascular physiology of astronauts. The Uscom BP+ has a real role in cardiovascular practice and we anticipate its adoption will grow rapidly once global approvals are granted over the next 12 months and as new specialist distributors are appointed.”*

Uscom manufactures and markets the USCOM 1A, the Uscom BP+, and the Uscom SpiroSonic digital ultrasonic spirometry technologies. These premium digital devices are changing the way we diagnose and treat cardiovascular and pulmonary diseases, including hypertension, heart failure, asthma, COPD and sleep disorders. The products are integral for optimising management of sepsis and guidance of fluid, inotropes and vasoactive therapies in critical care monitoring, and in clinical and home care delivered asthma and COPD medications.



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About Uscom

Uscom Limited (UCM) is an ASX listed innovative medical technology company specialising in development and marketing of premium non-invasive cardiovascular and pulmonary medical devices. Uscom has a mission to demonstrate leadership in science and create noninvasive devices that assist clinicians improve clinical outcomes. Uscom has three practice leading suites of devices in the field of cardiac, vascular and pulmonary monitoring; the USCOM 1A advanced hemodynamic monitor, Uscom BP+ central blood pressure monitor, and the Uscom SpiroSonic digital ultrasonic spirometers. Uscom devices are premium resolution, noninvasive devices which deploy innovative and practice leading technologies approved or submitted for FDA, CE, CFDA and TGA regulatory approval and marketing into global distribution networks.

The USCOM 1A is a simple to use, cost-effective and non-invasive advanced hemodynamic monitor that measures cardiovascular function, detects irregularities and is used to guide treatment. The USCOM 1A device has major applications in Pediatrics, Emergency, Intensive Care Medicine and Anaesthesia, and is the device of choice for management of adult and pediatric sepsis, hypertension, heart failure and for the guidance of fluid, inotropes and vasoactive cardiovascular therapy.

The Uscom BP+ is a supra-systolic oscillometric central blood pressure monitor which measures blood pressure and blood pressure waveforms at the heart, as well as in the arm, information only previously available using invasive cardiac catheterisation. The Uscom BP+ replaces conventional and more widespread sub-systolic blood pressure monitors, and is the emerging standard of care measurement in hypertension, heart failure and vascular health. The Uscom BP+ provides a highly accurate and repeatable measurement of central and brachial blood pressure and pulse pressure waveforms using a familiar upper arm cuff. The BP+ is simple to use and requires no complex training with applications in hypertension and pre-eclampsia, heart failure, intensive care, general practice and home care. The Uscom BP+ is supported by the proprietary BP+ Reporter, an innovative stand-alone software solution that provides a digital platform to archive patient examinations, trend measure progress over time, analyse pulse pressure waves and generate a summary report.

Uscom SpiroSonic digital ultrasonic spirometers are high fidelity, digital, pulmonary function testing devices based on multi path ultrasound technology. They are simple and accurate to use and provide research quality pulmonary function testing in small hand held devices that can be used in research, clinical and home care environments. The devices can be coupled with mobile phone applications and proprietary SpiroSonic software platforms with wireless interfacing to provide remote tele-monitoring of pulmonary disease. The devices are specialised for assessment of COPD, sleep disordered breathing, asthma, industrial lung disease and monitoring of pulmonary therapeutic compliance. The SpiroSonic devices are supported by the proprietary SpiroReporter, an innovative stand-alone software solution that provides a digital platform to archive patient examinations, trend measure progress over time, analyse spirometry outputs and generate a summary report.

For more information, please visit: www.uscom.com.au

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