



COLLEGE OF WILLIAM AND MARY TECHNOLOGY TRANSFER OFFICE

TITLE (AND CASE NUMBER) OF INVENTION

**METHOD FOR REDUCING POWER CONSUMPTION IN
SMARTPHONES AND OTHER DEVICES (WM-1307)**

INVENTORS

Gang Zhou et al.

APPLICATIONS

smartphones, tablet computers, laptops

SUMMARY

Limited battery life is a frequent complaint among users of portable electronic devices. Batteries with greater capacity can be used, but add size, weight, and typically heat. It would be tremendously advantageous for manufacturers to substantially increase operational battery time without changing the battery or any other hardware.

We have developed a robust method for conserving battery power in any electronic device that uses non-volatile storage, including smartphones, tablet computers, laptop computers, and netbooks. Energy savings of 52% were obtained when field-tested with an Android-based cellphone.

Our methods can be installed on any device provided a user has root access. For example, it can be simply downloaded as an application for an Android-based phone or tablet computer. Since access to the source code is required, our method could not be used, for example, with Apple products without Apple's involvement.

We believe this could be a very important invention, and are seeking to license it exclusively or non-exclusively to a manufacturer of suitable devices, or to a company that would create a downloadable app (estimated development time: 4-6 months for one experienced programmer).

PATENT STATUS

Patent pending.

CONTACT INFORMATION

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