



US 20090033617A1

(19) **United States**

(12) **Patent Application Publication**  
**Lindberg et al.**

(10) **Pub. No.: US 2009/0033617 A1**

(43) **Pub. Date: Feb. 5, 2009**

(54) **HAPTIC USER INTERFACE**

**Publication Classification**

(75) Inventors: **Phillip John Lindberg**, Helsinki (FI); **Sami Johannes Niemela**, Helsinki (FI)

(51) **Int. Cl.**  
**G09G 5/00** (2006.01)

(52) **U.S. Cl.** ..... **345/156**

Correspondence Address:  
**PERMAN & GREEN**  
**425 POST ROAD**  
**FAIRFIELD, CT 06824 (US)**

(57) **ABSTRACT**

It is presented a method comprising: generating at least one haptic user interface component using an array of haptic elements; detecting user input applied to at least one haptic element associated with one of said at least one haptic user interface component; and executing software code associated with activation of said one of said at least one user interface component. A corresponding apparatus, computer program product and user interface are also presented.

(73) Assignee: **NOKIA CORPORATION**, Espoo (FI)

(21) Appl. No.: **11/832,914**

(22) Filed: **Aug. 2, 2007**

