

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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TCL CORPORATION; TCL COMMUNICATION TECHNOLOGY  
HOLDINGS, LTD.; TCT MOBILE LIMITED; TCT MOBILE INC.; AND  
TCT MOBILE (US) INC.

Petitioners,

v.

TELEFONAKTIEBOLAGET LM ERICSSON

Patent Owner.

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Cases IPR2015-01674, IPR2015-01676, IPR2015-01761, IPR2015-01806

U.S. Patent No. RE43,931

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**DECLARATION OF JEAN RENARD WARD**

Ericsson Ex. 2077, Page 1  
TCL et al. v Ericsson  
IPR2015-01674, -01676, -01761, -01806

TCL Ex. 1219, Page 1  
TCL et al. v. Ericsson  
IPR2015-01674, -01676, -01761, -01806

Pursuant to 28 U.S.C. § 1746, I, Jean Renard Ward, hereby declare:

1. My name is Jean Renard Ward. I am over eighteen years of age, of sound mind, and in all ways qualified and competent to make this declaration. I have personal knowledge of the facts contained in this declaration and they are true and correct.

2. I am an independent developer and consultant in the areas of applications of public-key cryptography and computer security, in addition to pen/touch computing.

3. Ex. 2073 is a true and correct electronic copy of “Power Management in Mobile Devices” by Findlay Shearer, published in 2008.

4. Ex. 2074 is a true and correct electronic copy of “Smartphone Energy Consumption” by Sasu Tarkoma, Matti Siekkinen, Eemil Lagerspetz, and Yu Xiao, published in 2014.


5. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine

Declaration of Jean Renard Ward  
Cases IPR2015-01674, -01676 -01761, -01806  
U.S. Patent No. RE43,931

or imprisonment, or both, under Section 1001 of Title 18 of the U.S. Code and that such willful false statements may jeopardize the results of these proceedings.

I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct.

Date: 12 July 2016

  
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Jean Renard Ward