



US 20150046696A1

(19) **United States**(12) **Patent Application Publication**
Zheng(10) **Pub. No.: US 2015/0046696 A1**(43) **Pub. Date: Feb. 12, 2015**(54) **METHOD AND APPARATUS FOR SECURED
SOCIAL NETWORKING**(75) Inventor: **Yan Zheng**, Espoo (CN)(73) Assignee: **Nokia Corporation**, Espoo (FI)(21) Appl. No.: **14/385,497**(22) PCT Filed: **Mar. 31, 2012**(86) PCT No.: **PCT/CN2012/073415**

§ 371 (c)(1),

(2), (4) Date: **Sep. 15, 2014****Publication Classification**(51) **Int. Cl.****H04L 9/08**

(2006.01)

H04L 9/16

(2006.01)

(52) **U.S. Cl.**CPC **H04L 9/083** (2013.01); **H04L 9/088**
(2013.01); **H04L 9/16** (2013.01)USPC **713/155**

(57)

ABSTRACT

Various methods are described for using a local trust level and/or a general trust level to control access of data in PSN. Any PSN user can select other users with at least a minimum level of local and/or general trust for secure communications. The users with a trust level below a minimum trust level cannot access the data sent from him/her. The general trust level is controlled by access keys that are generated and issued by a trusted server. The local trust level controlled access keys are generated by each PSN device. Each PSN device issues the corresponding personalized secret keys to those users that satisfy the decryption conditions related to local trust level evaluated by PSN user itself. Both sets of keys can be applied at the same time to secure communication data in PSN controlled by both the general trust level and the local trust level.

