1 ARI JUELS - DRAFT 2 UNITED STATES PATENT AND TRADEMARK OFFICE 3 BEFORE THE PATENT TRIAL AND APPEAL BOARD 4 -----x 5 APPLE INC., б Petitioner, 7 -against-UNIVERSAL SECURE REGISTRY LLC, 8 Patent Owner. 9 Case IPR2018-00813 10 IPR2018-00809 -----X 11 12 DEPOSITION OF ARI JUELS New York, New York 13 May 6, 2019 14 15 Reported By: 16 ERIC J. FINZ 17 18 19 20 21 22 23 24 25

ARI JUELS - DRAFT May 6, 2019 ^ time ^ Deposition of ARI JUELS, taken by Patent Owner, at the offices of WilmerHale LLP, 7 World Trade Center, New б 7 York, New York, before ERIC J. FINZ, a Shorthand Reporter and Notary Public within and for the State of New York.

Α

1 ARI JUELS - DRAFT 2 APPEARANCES: 3 WILMERHALE LLP Attorneys for Petitioner 950 Page Mill Road 4 Palo Alto, California 94304 5 BY: MARK D. SELWYN, ESQ. б (mark.selwyn@wilmerhale.com) 7 -AND-WILMER HALE LLP 8 60 State Street 9 Boston, Massachusetts 02109 10 BY: KELVIN W. CHAN, ESQ. (kelvin.chan@wilmerhale.com) 11 12 QUINN EMANUEL URQUHART & SULLIVAN LLP Attorneys for Patent Owner 13 50 California Street San Francisco, California 94111 14 15 BY: BRIAN E. MACK, ESQ. (brianmack@quinnemanuel.com) 16 17 18 19 ALSO PRESENT: 20 MARKUS JAKOBSSON (Telephonically) 21 22 23 24 25

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1 ARI JUELS - DRAFT 2 ARI JUELS, 3 having been first duly sworn by the 4 Notary Public (Eric J. Finz), was examined and testified as follows: 5 ^ ^ HEADER ^ ^ 6 7 EXAMINATION BY 15:07:08 MR. MACK: 15:07:08 8 9 Q. Good afternoon. Could you 15:07:18 10 please state your name and address for 15:07:20 11 the record? 15:07:21 12 Α. My name is Ari Juels. That's 15:07:22 A-r-i, J-u-e-l-s. And I reside at 500 15:07:25 13 West 30th Street, New York, New York. 14 15:07:30 15 Ο. Professor Juels, have you been 15:07:33 deposed before today? 15:07:35 16 17 I have, yes. 15:07:36 Α. 18 You understand that you are 15:07:37 Ο. under an oath to tell the truth today. 19 15:07:39 20 Right? 15:07:41 21 Α. I do. 15:07:41 22 Ο. And that's the same oath that 15:07:42 23 you would be under if you were testifying 15:07:44 24 in front of a judge or a jury. 15:07:45 25 Do you understand that? 15:07:48

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