UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

3

4   APPLE INC.,   ) Cases
) IPR2017-00626 and
5   PETITIONER,   ) IPR2017-00627
) U.S. Patent
6   vs.   ) 6,363,345 B1
)
7   ANDREA ELECTRONICS INC.,   )

8   )
             PATENT OWNER.   )
9   ------------------------------

10

11   - - -

12   Wednesday, January 17, 2018

13   - - -

14

15   Deposition of SCOTT CLINTON DOUGLAS, PH.D.,

16   taken at the offices of PEPPER HAMILTON LLP,

17   600 14th Street, N.W., Washington, D.C., beginning at

18   9:35 a.m., before Nancy J. Martin, a Registered Merit

19   Reporter, Certified Shorthand Reporter.

20

21

22

```
 1    A P P E A R A N C E S :

 2


 3            SIDLEY AUSTIN LLP
              BY:   STEVEN S. BAIK, ESQ.
 4            1001 Page Mill Road
              Building 1
 5            Palo Alto, California     94304
              (650) 565-7016
 6            abaik@sidley.com
              Representing the Petitioner
 7
                   -AND-
 8
              SIDLEY AUSTIN LLP
 9            BY:   THOMAS A. BROUGHAN III, ESQ.
              1501 K Street N.W.
10            Washington, D.C.   20005
              (202) 736-8314
11            tbroughan@sidley.com
              Representing the Petitioner
12


13


14
              PEPPER HAMILTON LLP
15            BY:   BRADLEY LENNIE, ESQ.
                    SEAN GLOTH, ESQ.
16            600 14th Street N.W.
              Washington, D.C.    20005
17            (202) 220-1200
              lennieb@pepperlaw.com
18            gloths@pepperlaw.com
              Representing the Patent Owner
19


20


21


22
```

```
 1                    I N D E X

 2    SCOTT CLINTON DOUGLAS, PH.D.

 3    EXAMINATION BY                               PAGE

 4    MR. BAIK                                     5

 5

 6                  E X H I B I T S

 7    NUMBER          DESCRIPTION                  MARKED

 8    Exhibit 1       Operation of Current and Future    42
                      Minimum Values, 1 page
 9
      Exhibit 2       Operation of current and Future    65
10                    Minimum Values, with annotations,
                      1 page
11
      Exhibit 3        "An Efficient Algorithm to        67
12                    Estimate the Instantaneous SNR
                      of Speech Signals, 1093 - 1096,
13                    4 pages

14    Exhibit 4       Flowchart of the SNR Estimation    68
                      Algorithm, 1 page
15
      Exhibit 5       Declaration of Scott C. Douglas,   80
16                    Ph.D. in Support of Patent Owner's
                      Response, 104 pages
17
      Exhibit 6       Declaration of Scott C. Douglas,   81
18                    Ph.D., in Support of Patent
                      Owner's Response, 100 pages
19
      Exhibit 7       Monoconically Increasing Power     81
20                    chart, 1 page

21

22
```

```
 1                    E X H I B I T S

 2                      (CONTINUED)

 3    NUMBER          DESCRIPTION                    MARKED

 4    Exhibit 8       Exhibit A - Declaration of        118
                      Scott C. Douglas, Ph.D., in
 5                    Support of Complainant Andrea
                      Electronic Corporation's Initial
 6                    Claim Construction Brief,
                      95 pages
 7

 8

 9

10

11

12

13

14

15

16

17

18

19

20

21

22
```

```
 1        WASHINGTON, D.C., WEDNESDAY, JANUARY 17, 2018;

 2                      9:35 A.M.

 3                      -   -   -

 4

 5             SCOTT CLINTON DOUGLAS, PH.D.,

 6            having been first duly sworn,

 7         was examined and testified as follows:

 8

 9                    EXAMINATION

10   BY MR. BAIK:

11       Q.   Good morning, Dr. Douglas.

12       A.   Good morning.

13       Q.   Could you state your name for the record,

14   please.

15       A.   Scott Clinton Douglas.

16       Q.   And can you state your address, please.

17       A.   3040 Rosedale Avenue, Dallas, Texas, 75205.

18       Q.   And where are you currently employed?

19       A.   I'm employed at Southern Methodist University

20   in Dallas.

21       Q.   And what's your position there?

22       A.   I'm a professor there.
```

DOCKET ALARM

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts

Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research

With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips

Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.