1   UNITED STATES PATENT AND TRADEMARK OFFICE

         BEFORE THE PATENT TRIAL AND APPEAL BOARD

2

   APPLE, INC.,   §   Case IPR2016-01114

3   §   Patent No. 7,777,753

        Petitioner,   §

4   §   - and -

   V.   §

5   §   Case IPR2016-01135

   PARTHENON UNIFIED MEMORY   §   Patent No. 5,812,789

6 ARCHITECTURE, LLC,   §

                                     §

7   Patent Owner.   §

8

9   ORAL DEPOSITION OF

             MITCHELL A. THORNTON, PH.D., P.E.

10   MAY 22, 2017

11

12   ORAL DEPOSITION OF MITCHELL A. THORNTON,

13 PH.D., P.E., produced as a witness at the instance

14 of the Petitioner and duly sworn, was taken in the

15 above styled and numbered cause on Monday,

16 May 22, 2017, from 2:03 p.m. to 5:04 p.m., before

17 Tamara Chapman, CSR, RPR, CCR (LA) in and for the

18 State of Texas, reported by computerized stenotype

19 machine, at the offices of Ahmad, Zavitsanos,

20 Anaipakos, Alavi & Mensing, P.C., 1221 McKinney

21 Street, Suite 2500, Houston, Texas 77010, pursuant

22 to the Federal Rules of Civil Procedure and any

23 provisions stated on the record herein.

24

25   Job No. 124560

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

2   REPRESENTING PETITIONER:
          Yakov Zolotorev, Esq.
3   David Alberti, Esq.
          FEINBERG DAY ALBERTI & THOMPSON
4   1600 El Camino Real
          Menlo Park, California 94025

5

6

7

8   REPRESENTING PETITIONER:
          Michael Parsons, Esq.
9   HAYNES AND BOONE
          2505 N Plano Road
10   Richardson, Texas 75082

11

12   -and-
13   Raghav Bajaj, Esq.
          HAYNES AND BOONE
14   600 Congress Avenue
          Austin, Texas 78701

15

16

17   REPRESENTING PETITIONER:
          Curt Holbreich, Esq.
18   SIDLEY AUSTIN
          555 California Street
19   San Francisco, California 94104

20

21

     REPRESENTING PATENT OWNER:
22   Masood Anjom, Esq.
          AHMAD, ZAVITSANOS, ANAIPAKOS, ALAVI & MENSING,
23   1221 McKinney Street
          Houston, Texas 77010

24

25

```
 1                          I N D E X
 2
                                                    PAGE
 3
      APPEARANCES.................................    2
 4
          MITCHELL THORNTON, PH.D., P.E.
 5
      EXAMINATION
 6        By Mr. Alberti...........................    4
          By Mr. Anjom.............................   85
 7
 8                        E X H I B I T S
 9                                            PAGE LINE
      Exhibit 1001, U.S. Patent 7,777,753      11    24
10    (No Bates - 21 pages)
11    Exhibit 1001, U.S. Patent 5,812,789      64    15
      (No Bates - 13 pages)
12
      Exhibit 1003, Declaration of Robert      79    11
13    Colwell, Ph.D.
      (No Bates - 85 pages)
14
      Exhibit 1005, U.S. Patent 5,546,547      31    16
15    (No Bates - 25 pages)
16    Exhibit 1006, TMS320C8x System-Level     82    16
      Synopsis
17    (No Bates - 75 pages)
18    Exhibit 1007, U.S. Patent 5,001,625      83    24
      (No Bates - 51 pages)
19
      Exhibit 1011, U.S. Patent 5,787,264      55    22
20    (No Bates - 21 pages)
21    Exhibit 2009, Declaration of Mitchell     5    15
      A. Thornton, Ph.D., P.E. regarding
22    Patent 7,777,753
      (No Bates - 43 pages)
23
      Exhibit 2011, Declaration of Mitchell    61
24    A. Thornton, Ph.D., P.E. regarding
      Patent 5,812,789
25    (No Bates - 44 pages)
```

1   M. THORNTON - 5/22/17

2   MITCHELL THORNTON, PH.D., P.E.,

3   having been first duly sworn, testified as

4   follows:

5   EXAMINATION

6   BY MR. ALBERTI:

7   Q.   Good afternoon, Dr. Thornton. Could you

8   please state your full name for the record.

9   A.   Mitchell Aaron Thornton.

10   Q.   Are you acting as an expert witness for

11   PUMA in the two IPRs, IPR 2016-01114 and

12   IPR 2016-01135?

13   A.   I think those numbers are correct, if

14   those pertain to the '753 and '789 patent.

15   Q.   That's correct. We'll start with the '753

16   patent and we'll ask questions about that IPR, the

17   1114, and then we'll turn to the '789, which is the

18   1135, if that's okay.

19   A.   Sure.

20   Q.   Did you provide a declaration with respect

21   to those two IPRs?

22   A.   I did.

23   Q.   Two separate declarations, one for the

24   '753 patent, and one for the '789 patent. Is that

25   right?

1   M. THORNTON - 5/22/17

2   A.   Correct.

3   Q.   And you're prepared to discuss your

4   opinions with respect to both of those today?

5   A.   Correct.

6   Q.   Is there anything else that you believe

7   you needed to do before today to be fully prepared to

8   testify about those opinions?

9   A.   No.

10   Q.   Okay. We'll start with the '753, which is

11   the -01114 IPR. I'm going to repurpose some exhibit

12   numbers here which will correspond to the exhibit

13   numbers in that IPR.

14   What I'd first like to do is show you

15   Exhibit 2009, if you could take a look at that and

16   confirm that is a declaration that you provided in

17   the -1114 IPR.

18   A.   (Reviewing document.)

19   It appears to be, yes.

20   Q.   Did you read this declaration in

21   preparation for today?

22   A.   Yes.

23   Q.   Are the opinions contained in this

24   declaration complete and accurate with respect to the

25   '753 patent in this IPR?

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.

fastcase
Smarter legal research.