

IN THE UNITED STATES DISTRICT COURT  
FOR THE DISTRICT OF DELAWARE

EMC CORPORATION, )  
)  
Plaintiff, )  
)  
v. ) C.A. No. \_\_\_\_\_  
)  
PURE STORAGE, INC., ) **DEMAND FOR JURY TRIAL**  
)  
Defendant. )

**COMPLAINT FOR INJUNCTIVE RELIEF AND DAMAGES**

Plaintiff EMC Corporation (“EMC” or “Plaintiff”) alleges as follows against Defendant Pure Storage, Inc. (“Pure Storage” or “Defendant”).

**NATURE OF ACTION**

1. This is an action arising from Pure Storage’s infringement of EMC’s patents. EMC is the global leader in the development, manufacture, and sale of enterprise data storage systems. It has invested billions of dollars to develop and incorporate cutting-edge technology in its products, and through this substantial investment it has pioneered the development of many innovations in the information technology field, including the patented innovations that are the subject of this action. Pure Storage’s FlashArray product, just introduced in 2011, incorporates many of EMC’s patented advances. By this action, EMC seeks to put an end to Pure Storage’s patent infringement and to recover damages and attorneys’ fees for the harm Pure Storage has caused.

**PARTIES**

2. Plaintiff EMC is a Massachusetts corporation with its principal executive offices in Hopkinton, Massachusetts. It is a recognized leader in the information technology industry, offering innovative products and services that enable its customers to store, manage, protect, and

analyze vast amounts of digital data in a trusted and cost-efficient way. EMC's extensive product offerings – ranging from enterprise storage arrays to content management systems to storage area networks, backup, recovery and archiving solutions, and information security – are used by customers around the world to store, process, and access valuable information. Among the products EMC offers to the industry is a data storage system based on flash memory.

3. On information and belief, Defendant Pure Storage is a Delaware corporation with headquarters in Mountain View, California. Pure Storage manufactures and sells a data storage system based on flash memory that it offers for sale, in competition with EMC, under the name "FlashArray."

#### **JURISDICTION AND VENUE**

4. This is an action for patent infringement under the patent laws of the United States, Title 35 of the United States Code. This Court has subject matter jurisdiction pursuant to 28 U.S.C. §§ 1331 and 1338.

5. The Court has personal jurisdiction over Pure Storage because Pure Storage is incorporated in Delaware and has conducted and continues to conduct business within this judicial district.

6. Venue is proper in this judicial district under 28 U.S.C. §§ 1391 (b) and (c) and 1400 (b).

#### **FACTUAL BACKGROUND**

7. EMC has been the worldwide leader in the development and sale of large-scale data storage systems since the mid-1990s. That position of leadership is the result of pioneering innovation, hard work, and substantial investment by EMC in new technologies. Since 2003, EMC has invested more than \$30 billion in research, development, and acquisition of

technologies that have revolutionized the world of data storage. EMC has received numerous awards and recognitions as a result of its many product innovations. For example, in 2012, Thomson Reuters recognized EMC in its 2012 Top 100 Global Innovators report as one of the top 100 world leaders in innovation. In 2013, EMC was ranked No. 2 on FORTUNE Magazine's Most Admired Company List in the computer industry.

8. Many years ago, EMC recognized the vital role of solid-stage storage technologies, such as flash storage, in the evolution of its data storage business. Solid state storage devices have no moving parts, can be faster than traditional magnetic storage, and often consume less power than traditional storage. By 2005, EMC had begun investing in the development of flash technology in the context of the large-scale storage arrays on which EMC had built its core business. In 2008, EMC became the first enterprise storage vendor to integrate flash-based solid state drives into its core product portfolio. By 2011, EMC had sold and delivered several all-flash storage arrays to its customers, and continued to expand its flash product offerings in the ensuing years.

9. In order to protect EMC's substantial investment and world leader position in enterprise data storage systems, EMC and its subsidiaries have applied for and have been awarded several thousand patents from the United States Patent Office and the patent offices of foreign jurisdictions for their many innovations. Many of EMC's patents relate to its data storage innovations, both generally as well as specifically in the area of solid-state storage. Five of those patents are at issue in this lawsuit.

10. On June 7, 2005, the U.S. Patent and Trademark Office issued U.S. Patent No. 6,904,556, entitled "System and Methods which Utilize Parity Sets" (the "556 patent"). EMC's John K. Walton, Michael Bermingham, and Christopher S. MacLellan, the inventors of

the '556 patent, developed a novel approach to storing data on memory boards (such as those used in flash memory). The '556 patent protects aspects of this innovation.

11. On July 5, 2005, the U.S. Patent and Trademark Office issued U.S. Patent No. 6,915,475, entitled "Data Integrity Management for Data Storage Systems" (the "'475 patent"). Victor W. Tung and Stephen Lawrence Scaringella of EMC, the inventors of the '475 patent, developed a novel method and system for using multiple levels of error detecting codes in connection with the storage of data.

12. On May 13, 2008, the U.S. Patent and Trademark Office issued U.S. Patent No. 7,373,464, entitled "Efficient Data Storage System" (the "'464 patent"). Ming Benjamin Zhu, Kai Li, and R. Hugo Patterson, who performed work for an EMC acquisition called Data Domain, Inc., invented the subject matter of the '464 patent, which relates to a novel method, device, and computer program product for de-duplicating data.

13. On October 7, 2008, the U.S. Patent and Trademark Office issued U.S. Patent No. 7,434,015, entitled "Efficient Data Storage System" (the "'015 patent"), also invented by Messrs. Zhu, Li and Patterson. The '015 patent, like the '464 patent, relates to a novel method, device, and computer program product for de-duplicating data.

14. On February 12, 2013, the U.S. Patent and Trademark Office issued U.S. Patent No. 8,375,187, entitled "I/O Scheduling for Flash Drives" (the "'187 patent"). Kendell Chilton and Sachin More of EMC, the inventors of the '187 patent, developed a novel approach to scheduling read and write operations for solid-state storage devices (such as one using flash memory) to take advantage of their discovery that such a device is most efficient when it is devoted only to reading or writing data at any given time, but not both.

15. Pure Storage is a new entrant in the data storage industry, having released its first version of its FlashArray product in just 2011. It released additional generations of the FlashArray in 2012. As explained in more detail below, on information and belief, the Pure Storage FlashArray infringes one or more claims of EMC's '556, '475, '464, '015, and '187 patents.

### **COUNT ONE**

#### **Infringement of U.S. Patent No. 6,904,556**

16. EMC hereby realleges and incorporates herein the allegations set forth in paragraphs 1-15 of this Complaint.

17. EMC owns all right, title, and interest in the '556 patent, including the right to bring this suit for injunctive relief and damages. A copy of the '556 patent is attached hereto as Exhibit A.

18. EMC is informed and believes, and on that basis alleges, that Pure Storage has been and is infringing the '556 patent under at least 35 U.S.C § 271(a) by making, using, selling, and/or offering for sale products, including the FlashArray, that incorporate inventions claimed in the '556 patent.

19. EMC is informed and believes, and on that basis alleges, that Pure Storage's infringement is literal or, in the alternative, infringement under the doctrine of equivalents.

20. EMC is informed and believes, and on that basis alleges, that Pure Storage instructs its customers on the use of the FlashArray, and that Pure Storage will continue such instruction following Pure Storage's receipt of this Complaint with knowledge of the '556 patent and intent to cause infringement, thereby inducing infringement of the '556 patent.

21. Pure Storage's infringement has left EMC with no adequate remedy at law and has caused, is causing, and if not enjoined will continue to cause, irreparable damage to EMC.

22. Pure Storage, by way of its infringing activity, has caused and continues to cause EMC to suffer damages in an amount to be determined at trial.

## **COUNT TWO**

### **Infringement of U.S. Patent No. 6,915,475**

23. EMC hereby realleges and incorporates herein the allegations set forth in paragraphs 1-15 of this Complaint.

24. EMC owns all right, title, and interest in the '475 patent, including the right to bring this suit for injunctive relief and damages. A copy of the '475 patent is attached hereto as Exhibit B.

25. EMC is informed and believes, and on that basis alleges, that Pure Storage has been and is infringing the '475 patent under at least 35 U.S.C § 271(a) by making, using, selling, and/or offering for sale products, including the FlashArray, that incorporate inventions claimed in the '475 patent.

26. EMC is informed and believes, and on that basis alleges, that Pure Storage's infringement is literal or, in the alternative, infringement under the doctrine of equivalents.

27. EMC is informed and believes, and on that basis alleges, that Pure Storage instructs its customers on the use of the FlashArray, and that Pure Storage will continue such instruction following Pure Storage's receipt of this Complaint with knowledge of the '475 patent and intent to cause infringement, thereby inducing infringement of the '475 patent.

28. Pure Storage's infringement has left EMC with no adequate remedy at law and has caused, is causing, and if not enjoined will continue to cause, irreparable damage to EMC.

29. Pure Storage, by way of its infringing activity, has caused and continues to cause EMC to suffer damages in an amount to be determined at trial.

### **COUNT THREE**

#### **Infringement of U.S. Patent No. 7,373,464**

30. EMC hereby realleges and incorporates herein the allegations set forth in paragraphs 1-15 of this Complaint.

31. EMC owns all right, title, and interest in the '464 patent, including the right to bring this suit for injunctive relief and damages. A copy of the '464 patent is attached hereto as Exhibit C.

32. EMC is informed and believes, and on that basis alleges, that Pure Storage has been and is infringing the '464 patent under at least 35 U.S.C § 271(a) by making, using, selling, and/or offering for sale products, including the FlashArray, that incorporate inventions claimed in the '464 patent.

33. EMC is informed and believes, and on that basis alleges, that Pure Storage's infringement is literal or, in the alternative, infringement under the doctrine of equivalents.

34. EMC is informed and believes, and on that basis alleges, that Pure Storage instructs its customers on the use of FlashArray, and that Pure Storage will continue such instruction following Pure Storage's receipt of this Complaint with knowledge of the '464 patent and intent to cause infringement, thereby inducing infringement of the '464 patent.

35. Pure Storage's infringement has left EMC with no adequate remedy at law and has caused, is causing, and if not enjoined will continue to cause, irreparable damage to EMC.

36. Pure Storage, by way of its infringing activity, has caused and continues to cause EMC to suffer damages in an amount to be determined at trial.

**COUNT FOUR**

**Infringement of U.S. Patent No. 7,434,015**

37. EMC hereby realleges and incorporates herein the allegations set forth in paragraphs 1-15 of this Complaint.

38. EMC owns all right, title, and interest in the '015 patent, including the right to bring this suit for injunctive relief and damages. A copy of the '015 patent is attached hereto as Exhibit D.

39. EMC is informed and believes, and on that basis alleges, that Pure Storage has been and is infringing of the '015 patent under at least 35 U.S.C § 271(a) by making, using, selling, and/or offering for sale products, including the FlashArray, that incorporate inventions claimed in the '015 patent.

40. EMC is informed and believes, and on that basis alleges, that Pure Storage's infringement is literal or, in the alternative, infringement under the doctrine of equivalents.

41. EMC is informed and believes, and on that basis alleges, that Pure Storage instructs its customers on the use of FlashArray, and that Pure Storage will continue such instruction following Pure Storage's receipt of this Complaint with knowledge of the '015 patent and intent to cause infringement, thereby inducing infringement of the '015 patent.

42. Pure Storage's infringement has left EMC with no adequate remedy at law and has caused, is causing, and if not enjoined will continue to cause, irreparable damage to EMC.

43. Pure Storage, by way of its infringing activity, has caused and continues to cause EMC to suffer damages in an amount to be determined at trial.

**COUNT FIVE**

**Infringement of U.S. Patent No. 8,375,187**

44. EMC hereby realleges and incorporates herein the allegations set forth in paragraphs 1-15 of this Complaint.

45. EMC owns all right, title, and interest in the '187 patent, including the right to bring this suit for injunctive relief and damages. A copy of the '187 patent is attached hereto as Exhibit E.

46. EMC is informed and believes, and on that basis alleges, that Pure Storage has been and is infringing of the '187 patent under at least 35 U.S.C § 271(a) by making, using, selling, and/or offering for sale products, including the FlashArray, that incorporate inventions claimed in the '187 patent.

47. EMC is informed and believes, and on that basis alleges, that Pure Storage's infringement is literal or, in the alternative, infringement under the doctrine of equivalents.

48. EMC is informed and believes, and on that basis alleges, that Pure Storage instructs its customers on the use of FlashArray, and that Pure Storage will continue such instruction following Pure Storage's receipt of this Complaint with knowledge of the '187 patent and intent to cause infringement, thereby inducing infringement of the '187 patent.

49. Pure Storage's infringement has left EMC with no adequate remedy at law and has caused, is causing, and if not enjoined will continue to cause, irreparable damage to EMC.

50. Pure Storage, by way of its infringing activity, has caused and continues to cause EMC to suffer damages in an amount to be determined at trial.

### **PRAYER FOR RELIEF**

Wherefore, EMC respectfully requests that judgment be entered in its favor and prays that the Court grant the following relief:

- A. A judgment in EMC's favor on each count;
- B. A judgment in favor of EMC that Pure Storage has infringed, literally and/or under the doctrine of equivalents, claims of the '556 patent;
- C. A judgment in favor of EMC that Pure Storage has infringed, literally and/or under the doctrine of equivalents, claims of the '475 patent;
- D. A judgment in favor of EMC that Pure Storage has infringed, literally and/or under the doctrine of equivalents, claims of the '464 patent;
- E. A judgment in favor of EMC that Pure Storage has infringed, literally and/or under the doctrine of equivalents, claims of the '015 patent;
- F. A judgment in favor of EMC that Pure Storage has infringed, literally and/or under the doctrine of equivalents, claims of the '187 patent;
- G. An order preliminarily and permanently enjoining Pure Storage, together with its officers, agents, employees, attorneys, dealers, distributors, sales representatives, and all others acting in concert or privity with it, from making, using, selling, offering for sale, or importing FlashArray or any colorable imitation of FlashArray, and from otherwise infringing the claims of the patents at issue;
- H. An order requiring Pure Storage to provide a pre-judgment accounting and to pay supplemental damages to EMC, including without limitation, pre-judgment and post-judgment interest;

I. An award to EMC of the damages to which is entitled under 35 U.S.C. § 284 for Pure Storage's past infringement and any continuing or future infringement up until the date Pure Storage is finally and permanently enjoined from further infringement;

J. An award to EMC of equitable relief requiring Pure Storage to destroy all infringing products in inventory, including but not limited to its FlashArray products wherever they may be stored or maintained, and to recall from the marketplace all such infringing products, including but not limited to any infringing products in the possession or control of dealers, distributors, or customers.

K. An award to EMC of its attorneys' fees and costs in this action;

L. Such other relief that the Court deems just and proper.

**JURY DEMAND**

Plaintiff demands a trial by jury on all issues triable to a jury.

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