U.S. Patent No. 8,478,799 Petition for *Inter Partes* Review

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UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

Springpath, Inc. Petitioner

V.

SimpliVity Corporation, Patent Owner

Case IPR2016-01780

PETITION FOR *INTER PARTES* REVIEW OF U.S. PATENT NO. 8,478,799 CHALLENGING CLAIMS 1–2, 7–13, 17–20, 27, and 33–35 UNDER 35 U.S.C. § 312 AND 37 C.F.R. § 42.104

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B.	"namespace file system"
VIII.	Level of Ordinary Skill In The Art
IX.	Specific Grounds for Petition
А.	Ground I: Claims 1-2, 7-9, 12, 17-19, 27, and 35 are anticipated by Atkin 27
1	. Independent Claim 1
2 n	Claim 2: "The file system of claim 1, wherein: object references are napped by the object fingerprints."
-	Claim 7: "The file system of claim 1, wherein: the file object mapping omprises a linear list, a tree structure or an indirection table."
re tl	Claim 8: "The file system of claim 1, wherein: the file objects include a oot object having its own object fingerprint derived from all of the objects in he file system such that every object in the file system is accessible through he root object."
fi	Claim 9: "The file system of claim 8, wherein a change of content of any ile system object changes the root object and tracking changes in the root bject provides a history of file system activity."
	Claim 12: "The file system of claim 1, wherein: the object size is variable
0	Claim 17: The file system of claim 1, including: a stack wherein the bject store comprises a lower portion of the stack and the file system omprises an upper portion of the stack
a c	Claim 18: The file system of claim 1, wherein: the namespace file system nd the object store are implemented in one or more of digital electronic ircuitry, computer hardware, firmware, a computer program in a non-
	ransitory machine readable storage device, or combinations thereof44 Independent Claim 19
9	-
r	0. Claim 27: A computer program embodied in a non-transitory machine eadable storage device comprising program code means which, when xecuted by a process, performs the steps of method claim 1947
	1. Claim 35: The method of claim 19, including: adding, modifying or leleting an object of the file and generating a new file object fingerprint47
В.	Ground II: Claims 11, 20, and 33-34 are obvious over Atkin in view of Li 48

Х.

Springpath, Inc. ("Springpath") respectfully requests *Inter Partes* Review of claims 1–2, 7–13, 17–20, 27, and 33–35 of U.S. Patent No. 8,478,799 (the "799 patent") (Ex. 1101) pursuant to 35 U.S.C. §§ 311-19 and 37 C.F.R. § 42.1 *et seq*.

I. INTRODUCTION

The '799 patent claims a purportedly novel computer file system for naming and storing of files on computer storage devices. But in fact, the claimed file system merely combines well known techniques disclosed by Jinyuan Li and others nearly four years before the alleged invention. Decl. ¶ 24 (Ex. 1102).

The '799 patent is directed to a stacked file system, comprising two distinct storage systems: a namespace file system and an underlying object store (also referred to in the '799 patent as an "object file system"). The object store is used to host the data in the form of objects. The name of the object is derived from the object's content using, for example, a strong cryptographic hash, and represents a "fingerprint" of the content. These fingerprints of the objects are globally unique because: (i) no two objects can have the same content (because in that case, they would by definition have the same fingerprint and therefore be the same object); and (ii) two objects with different content will always have different fingerprints. Object stores have an "index" that tracks all of the objects and associates each object's name with its location. Decl. ¶ 25 (Ex. 1102).

The '799 patent describes a "namespace file system" at the top of the storage

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