

<b>PATENT ASSIGNMENT COVER SHEET</b>
--------------------------------------

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5864522

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ROBIN MAHONY	12/09/2019
OLIVER SEILER	12/05/2019
BLAKE EDWARDS	12/05/2019
VLADIMIR AVRAM	12/05/2019
GREGORY KENT	12/05/2019
CHONG ZHAO	12/03/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NETAPP, INC.
<b>Street Address:</b>	1395 CROSSMAN AVENUE
<b>City:</b>	SUNNYVALE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94089
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16677565
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(214)200-0853
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	(949)202-3056
<b>Email:</b>	tu.nguyen@haynesboone.com
<b>Correspondent Name:</b>	HAYNES AND BOONE, LLP
<b>Address Line 1:</b>	2323 VICTORY AVENUE, SUITE 700
<b>Address Line 4:</b>	DALLAS, TEXAS 75219
<b>ATTORNEY DOCKET NUMBER:</b>	47415.684US01
<b>NAME OF SUBMITTER:</b>	DAVID HARDOON
<b>SIGNATURE:</b>	/David Hardoon/
<b>DATE SIGNED:</b>	12/12/2019
<b>Total Attachments: 6</b>	

source=47415-684US01\_Assignment#page1.tif  
source=47415-684US01\_Assignment#page2.tif  
source=47415-684US01\_Assignment#page3.tif  
source=47415-684US01\_Assignment#page4.tif  
source=47415-684US01\_Assignment#page5.tif  
source=47415-684US01\_Assignment#page6.tif

**A S S I G N M E N T**

WHEREAS, we,

- |     |                |    |                      |
|-----|----------------|----|----------------------|
| (1) | Robin Mahony   | of | Vancouver, BC Canada |
| (2) | Oliver Seiler  | of | Vancouver, BC Canada |
| (3) | Blake Edwards  | of | Vancouver, BC Canada |
| (4) | Vladimir Avram | of | Vancouver, BC Canada |
| (5) | Gregory Kent   | of | Vancouver, BC Canada |
| (6) | Chong Zhao     | of | Vancouver, BC Canada |

have invented certain improvements in

**SYNCHRONOUS OBJECT PLACEMENT FOR INFORMATION LIFECYCLE  
MANAGEMENT**

for which we have executed an application for Letters Patent of the United States of America,

\_\_\_\_\_ of even date filed herewith; and  
  x   filed on November 7, 2019 and assigned application number 16/677,565; and

WHEREAS, we authorize the attorney of record to update this document to include Patent Office information as deemed necessary (i.e., filing date, serial number, etc.);

WHEREAS, NetApp, Inc. a Delaware corporation is desirous of obtaining the entire right, title, and interest in, to and under the said invention and the said application in the United States of America and in any and all countries foreign thereto;

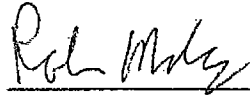
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and other good and valuable consideration, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said NetApp, Inc., its successors, legal representatives, and assigns, the entire right, title, and interest in, to and under the said invention, and the said application, and all divisional, renewal, substitutional, and continuing applications thereof, and all Letters Patent of the United States of America which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may be filed for said invention in any country or countries foreign to the United States of America, and all extensions, renewals, and reissues thereof, and all prior patents and patent applications from which a filing priority of the above-described patent application may be obtained, including the right to collect past damages; and we hereby authorize and request the Commissioner of Patents of the United States of America, and any official of any country or countries foreign to the United States of America, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said invention to the said NetApp, Inc., its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to said NetApp, Inc., its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid the said NetApp, Inc., its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

Inventor Name: Robin Mahony

Dated: Dec. 9, 2019



Inventor Signature

Inventor Name: Oliver Seiler

Dated: \_\_\_\_\_

Inventor Signature


Inventor Name: Blake Edwards

Dated: \_\_\_\_\_

Inventor Signature

Inventor Name: Vladimir Avram

Dated: Dec 5, 2019



Inventor Signature

Inventor Name: Gregory Kent

Dated: \_\_\_\_\_

Inventor Signature

Inventor Name: Chong Zhao

Dated: \_\_\_\_\_

Inventor Signature

AND WE HEREBY further covenant and agree that we will communicate to said NetApp, Inc., its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid the said NetApp, Inc., its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

Inventor Name: Robin Mahony

Dated: \_\_\_\_\_

\_\_\_\_\_  
Inventor Signature

Inventor Name: Oliver Seiler

Dated: 12/5/2019 \_\_\_\_\_



\_\_\_\_\_  
Inventor Signature

Inventor Name: Blake Edwards

Dated: \_\_\_\_\_

\_\_\_\_\_  
Inventor Signature

Inventor Name: Vladimir Avram

Dated: \_\_\_\_\_

\_\_\_\_\_  
Inventor Signature

Inventor Name: Gregory Kent

Dated: \_\_\_\_\_

\_\_\_\_\_  
Inventor Signature

Inventor Name: Chong Zhao

Dated: \_\_\_\_\_

\_\_\_\_\_  
Inventor Signature

AND WE HEREBY further covenant and agree that we will communicate to said NetApp, Inc., its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid the said NetApp, Inc., its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

Inventor Name: Robin Mahony

Dated: \_\_\_\_\_

\_\_\_\_\_  
Inventor Signature


Inventor Name: Oliver Seiler

Dated: \_\_\_\_\_

\_\_\_\_\_  
Inventor Signature

Inventor Name: Blake Edwards

Dated: Dec. 5, 2019

  
\_\_\_\_\_  
Inventor Signature

Inventor Name: Vladimir Avram

Dated: \_\_\_\_\_

\_\_\_\_\_  
Inventor Signature

Inventor Name: Gregory Kent

Dated: \_\_\_\_\_

\_\_\_\_\_  
Inventor Signature

Inventor Name: Chong Zhao

Dated: \_\_\_\_\_

\_\_\_\_\_  
Inventor Signature

AND WE HEREBY further covenant and agree that we will communicate to said NetApp, Inc., its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid the said NetApp, Inc., its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

Inventor Name: Robin Mahony

Dated: \_\_\_\_\_

\_\_\_\_\_  
Inventor Signature

Inventor Name: Oliver Seiler

Dated: \_\_\_\_\_

\_\_\_\_\_  
Inventor Signature

Inventor Name: Blake Edwards

Dated: \_\_\_\_\_

\_\_\_\_\_  
Inventor Signature

Inventor Name: Vladimir Avram

Dated: \_\_\_\_\_

\_\_\_\_\_  
Inventor Signature

Inventor Name: Gregory Kent

Dated: Dec 5 2019

  
\_\_\_\_\_  
Inventor Signature

Inventor Name: Chong Zhao

Dated: \_\_\_\_\_

\_\_\_\_\_  
Inventor Signature

AND WE HEREBY further covenant and agree that we will communicate to said NetApp, Inc., its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid the said NetApp, Inc., its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

Inventor Name: Robin Mahony

Dated: \_\_\_\_\_

\_\_\_\_\_  
Inventor Signature

Inventor Name: Oliver Seiler

Dated: \_\_\_\_\_

\_\_\_\_\_  
Inventor Signature

Inventor Name: Blake Edwards

Dated: \_\_\_\_\_

\_\_\_\_\_  
Inventor Signature

Inventor Name: Vladimir Avram

Dated: \_\_\_\_\_

\_\_\_\_\_  
Inventor Signature

Inventor Name: Gregory Kent

Dated: \_\_\_\_\_

\_\_\_\_\_  
Inventor Signature

Inventor Name: Chong Zhao

Dated: 2019.12.03

Chong Zhao  
\_\_\_\_\_  
Inventor Signature