

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT2677458

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	CHANGE OF NAME
CONVEYING PARTY DATA	
Name	Execution Date
MVE, INC.	12/27/1999
RECEIVING PARTY DATA	
Name:	CHART INC.
Street Address:	ONE INFINITY CORPORATE CENTRE DRIVE
City:	GARFIELD HEIGHTS
State/Country:	OHIO
Postal Code:	44125-5370
PROPERTY NUMBERS Total: 1	
Property Type	Number
Patent Number:	5682750
CORRESPONDENCE DATA	
Fax Number:	
Email:	tly@mintz.com
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>	
Correspondent Name:	TONY LY
Address Line 1:	3580 CARMEL MOUNTAIN RD SUITE 300
Address Line 4:	SAN DIEGO, CALIFORNIA 92130
ATTORNEY DOCKET NUMBER:	42733-500
NAME OF SUBMITTER:	TONY LY
Signature:	/TLY/
Date:	01/10/2014

Total Attachments: 9  
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# Delaware

PAGE 1

## The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THAT "CHART INC." IS DULY INCORPORATED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL CORPORATE EXISTENCE NOT HAVING BEEN CANCELLED OR DISSOLVED SO FAR AS THE RECORDS OF THIS OFFICE SHOW AND IS DULY AUTHORIZED TO TRANSACT BUSINESS.

THE FOLLOWING DOCUMENTS HAVE BEEN FILED:

CERTIFICATE OF INCORPORATION, FILED THE SIXTH DAY OF DECEMBER, A.D. 1984, AT 9 O'CLOCK A.M.

RESTATED CERTIFICATE, FILED THE TWENTY-EIGHTH DAY OF FEBRUARY, A.D. 1985, AT 2 O'CLOCK P.M.

CERTIFICATE OF MERGER, CHANGING ITS NAME FROM "MVE HOLDING CORPORATION" TO "MINNESOTA VALLEY ENGINEERING, INC.", FILED THE TWENTY-FIRST DAY OF JUNE, A.D. 1989, AT 3 O'CLOCK P.M.

CERTIFICATE OF OWNERSHIP, FILED THE EIGHTH DAY OF JANUARY, A.D. 1991, AT 9 O'CLOCK A.M.

CERTIFICATE OF RENEWAL, FILED THE THIRTIETH DAY OF APRIL, A.D. 1992, AT 12 O'CLOCK P.M.

CERTIFICATE OF AMENDMENT, CHANGING ITS NAME FROM "MINNESOTA VALLEY ENGINEERING, INC." TO "MVE, INC.", FILED THE NINETEENTH

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You may verify this certificate online  
at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 1001823

DATE: 12-20-13

PATENT  
REEL: 031944 FRAME: 0822

# Delaware

PAGE 2

*The First State*

DAY OF JULY, A.D. 1994, AT 9 O'CLOCK A.M.

CERTIFICATE OF AMENDMENT, FILED THE NINTH DAY OF JUNE, A.D. 1997, AT 11:30 O'CLOCK A.M.

CERTIFICATE OF OWNERSHIP, FILED THE THIRD DAY OF FEBRUARY, A.D. 1998, AT 11:30 O'CLOCK A.M.

CERTIFICATE OF OWNERSHIP, FILED THE THIRD DAY OF FEBRUARY, A.D. 1998, AT 11:31 O'CLOCK A.M.

CERTIFICATE OF OWNERSHIP, CHANGING ITS NAME FROM "MVE, INC." TO "CHART INC.", FILED THE TWENTY-NINTH DAY OF DECEMBER, A.D. 1999, AT 9 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF OWNERSHIP IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 1999.

CERTIFICATE OF MERGER, FILED THE THIRTY-FIRST DAY OF MARCH, A.D. 2000, AT 10 O'CLOCK A.M.

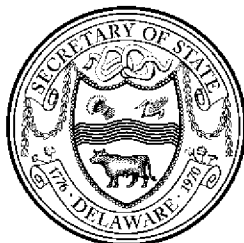
CERTIFICATE OF OWNERSHIP, FILED THE THIRTIETH DAY OF JUNE, A.D. 2000, AT 2 O'CLOCK P.M.

CERTIFICATE OF MERGER, FILED THE TWENTY-SEVENTH DAY OF DECEMBER, A.D. 2000, AT 11 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF

2049930 8310

131457194



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Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 1001823

DATE: 12-20-13

PATENT  
REEL: 031944 FRAME: 0823

# Delaware

PAGE 3

*The First State*

THE AFORESAID CERTIFICATE OF MERGER IS THE FIRST DAY OF JANUARY,  
A.D. 2001.

CERTIFICATE OF MERGER, FILED THE TWENTY-SEVENTH DAY OF  
SEPTEMBER, A.D. 2002, AT 2 O'CLOCK P.M.

CERTIFICATE OF AMENDMENT, FILED THE FIFTEENTH DAY OF  
SEPTEMBER, A.D. 2003, AT 11:26 O'CLOCK A.M.

CERTIFICATE OF MERGER, FILED THE FOURTEENTH DAY OF OCTOBER,  
A.D. 2005, AT 8:15 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF  
THE AFORESAID CERTIFICATE OF MERGER IS THE FOURTEENTH DAY OF  
OCTOBER, A.D. 2005, AT 4 O'CLOCK P.M.

CERTIFICATE OF CHANGE OF REGISTERED AGENT, FILED THE THIRD  
DAY OF MARCH, A.D. 2010, AT 11:45 O'CLOCK A.M.

CERTIFICATE OF OWNERSHIP, FILED THE FIRST DAY OF APRIL, A.D.  
2011, AT 2:13 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE AFORESAID  
CERTIFICATES ARE THE ONLY CERTIFICATES ON RECORD OF THE  
AFORESAID CORPORATION, "CHART INC."

AND I DO HEREBY FURTHER CERTIFY THAT THE SAID "CHART INC."  
WAS INCORPORATED ON THE SIXTH DAY OF DECEMBER, A.D. 1984.

2049930 8310

131457194



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at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 1001823

DATE: 12-20-13

PATENT  
REEL: 031944 FRAME: 0824

# Delaware

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*The First State*

AND I DO HEREBY FURTHER CERTIFY THAT THE FRANCHISE TAXES  
HAVE BEEN PAID TO DATE.

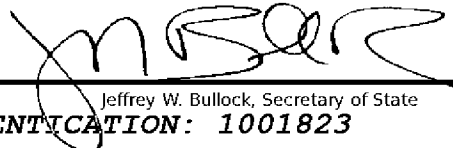
AND I DO HEREBY FURTHER CERTIFY THAT THE ANNUAL REPORTS HAVE  
BEEN FILED TO DATE.



2049930 8310

131457194

You may verify this certificate online  
at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 1001823

DATE: 12-20-13

PATENT  
REEL: 031944 FRAME: 0825

# Delaware

PAGE 1

## The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED ARE TRUE AND CORRECT COPIES OF ALL DOCUMENTS ON FILE OF "CHART INC." AS RECEIVED AND FILED IN THIS OFFICE.

THE FOLLOWING DOCUMENTS HAVE BEEN CERTIFIED:

CERTIFICATE OF INCORPORATION, FILED THE SIXTH DAY OF DECEMBER, A.D. 1984, AT 9 O'CLOCK A.M.

RESTATED CERTIFICATE, FILED THE TWENTY-EIGHTH DAY OF FEBRUARY, A.D. 1985, AT 2 O'CLOCK P.M.

CERTIFICATE OF MERGER, CHANGING ITS NAME FROM "MVE HOLDING CORPORATION" TO "MINNESOTA VALLEY ENGINEERING, INC.", FILED THE TWENTY-FIRST DAY OF JUNE, A.D. 1989, AT 3 O'CLOCK P.M.

CERTIFICATE OF OWNERSHIP, FILED THE EIGHTH DAY OF JANUARY, A.D. 1991, AT 9 O'CLOCK A.M.

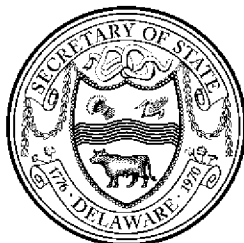
CERTIFICATE OF RENEWAL, FILED THE THIRTIETH DAY OF APRIL, A.D. 1992, AT 12 O'CLOCK P.M.

CERTIFICATE OF AMENDMENT, CHANGING ITS NAME FROM "MINNESOTA VALLEY ENGINEERING, INC." TO "MVE, INC.", FILED THE NINETEENTH DAY OF JULY, A.D. 1994, AT 9 O'CLOCK A.M.

CERTIFICATE OF AMENDMENT, FILED THE NINTH DAY OF JUNE, A.D.

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You may verify this certificate online  
at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 1001824

DATE: 12-20-13

PATENT  
REEL: 031944 FRAME: 0826

# Delaware

PAGE 2

*The First State*

1997, AT 11:30 O'CLOCK A.M.

CERTIFICATE OF OWNERSHIP, FILED THE THIRD DAY OF FEBRUARY,  
A.D. 1998, AT 11:30 O'CLOCK A.M.

CERTIFICATE OF OWNERSHIP, FILED THE THIRD DAY OF FEBRUARY,  
A.D. 1998, AT 11:31 O'CLOCK A.M.

CERTIFICATE OF OWNERSHIP, CHANGING ITS NAME FROM "MVE, INC."  
TO "CHART INC.", FILED THE TWENTY-NINTH DAY OF DECEMBER, A.D.  
1999, AT 9 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF  
THE AFORESAID CERTIFICATE OF OWNERSHIP IS THE THIRTY-FIRST DAY  
OF DECEMBER, A.D. 1999.

CERTIFICATE OF MERGER, FILED THE THIRTY-FIRST DAY OF MARCH,  
A.D. 2000, AT 10 O'CLOCK A.M.

CERTIFICATE OF OWNERSHIP, FILED THE THIRTIETH DAY OF JUNE,  
A.D. 2000, AT 2 O'CLOCK P.M.

CERTIFICATE OF MERGER, FILED THE TWENTY-SEVENTH DAY OF  
DECEMBER, A.D. 2000, AT 11 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF  
THE AFORESAID CERTIFICATE OF MERGER IS THE FIRST DAY OF JANUARY,  
A.D. 2001.

2049930 8100H

131457194



You may verify this certificate online  
at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 1001824

DATE: 12-20-13

PATENT  
REEL: 031944 FRAME: 0827



# Delaware

PAGE 3

*The First State*

CERTIFICATE OF MERGER, FILED THE TWENTY-SEVENTH DAY OF  
SEPTEMBER, A.D. 2002, AT 2 O'CLOCK P.M.

CERTIFICATE OF AMENDMENT, FILED THE FIFTEENTH DAY OF  
SEPTEMBER, A.D. 2003, AT 11:26 O'CLOCK A.M.

CERTIFICATE OF MERGER, FILED THE FOURTEENTH DAY OF OCTOBER,  
A.D. 2005, AT 8:15 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF  
THE AFORESAID CERTIFICATE OF MERGER IS THE FOURTEENTH DAY OF  
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CERTIFICATE OF OWNERSHIP, FILED THE FIRST DAY OF APRIL, A.D.  
2011, AT 2:13 O'CLOCK P.M.

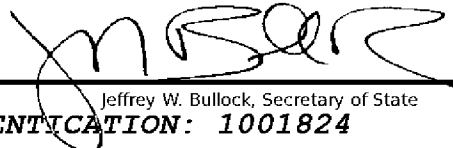
AND I DO HEREBY FURTHER CERTIFY THAT THE AFORESAID  
CERTIFICATES ARE THE ONLY CERTIFICATES ON RECORD OF THE  
AFORESAID CORPORATION, "CHART INC."

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131457194



You may verify this certificate online  
at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 1001824

DATE: 12-20-13

PATENT  
REEL: 031944 FRAME: 0828

CERTIFICATE OF OWNERSHIP AND MERGER

OF

MVE/HANSE ENVIRONMENTAL, INC.  
(a Delaware corporation)

AND

ALLOY CRAFTS CO.  
(a Delaware corporation)

INTO

MVE, INC.  
(a Delaware corporation)

It is hereby certified that:

1. MVE, Inc. (hereinafter sometimes referred to as the "Corporation") is a business corporation of the State of Delaware.

2. The Corporation is the owner of all of the outstanding shares of stock of MVE/Hanse Environmental, Inc. and Alloy Crafts Co., which are also business corporations of the State of Delaware.

3. On December 27, 1999, the Board of Directors of the Corporation adopted the following resolutions to merge MVE/Hanse Environmental, Inc. and Alloy Crafts Co. into the Corporation:

RESOLVED that MVE/Hanse Environmental, Inc. and Alloy Crafts Co. be merged into the Corporation, and that all of the estate, property, rights, privileges, powers and franchises of MVE/Hanse Environmental, Inc. and Alloy Crafts Co. be vested in and held and enjoyed by the Corporation as fully and entirely and without change or diminution as the same were before held and enjoyed by MVE/Hanse Environmental, Inc. and Alloy Crafts Co. in their names.

RESOLVED that the Corporation shall assume all of the obligations of MVE/Hanse Environmental, Inc. and Alloy Crafts Co.

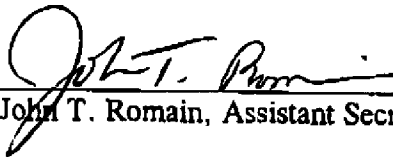
RESOLVED that the Corporation shall cause to be executed and filed and/or recorded the documents prescribed by the laws of the State of Delaware and by the laws of any other appropriate jurisdiction and will cause to be performed all necessary acts within the State of Delaware and within any other appropriate jurisdiction.

RESOLVED that the Corporation shall change its corporate name to Chart Inc.

RESOLVED that the effective time of the Certificate of Ownership and Merger setting forth a copy of these resolutions, and the time when the merger therein provided for, shall become effective shall be December 31, 1999.

Executed on December 27, 1999

MVE, INC.

By:   
John T. Romain, Assistant Secretary