

**TRADEMARK ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNS THE ENTIRE INTEREST AND THE GOODWILL

**CONVEYING PARTY DATA**

Name	Formerly	Execution Date	Entity Type
Acusim Software, Inc.		12/31/2010	CORPORATION:

**RECEIVING PARTY DATA**

<b>Name:</b>	Altair Engineering, Inc.
<b>Street Address:</b>	1820 E. Big Beaver Road
<b>Internal Address:</b>	Office of General Counsel
<b>City:</b>	Troy
<b>State/Country:</b>	MICHIGAN
<b>Postal Code:</b>	48083-2031
<b>Entity Type:</b>	CORPORATION: MICHIGAN

**PROPERTY NUMBERS Total: 5**

Property Type	Number	Word Mark
Serial Number:	77950919	CFDCALC
Registration Number:	3958578	ACUDESKTOP
Registration Number:	3757565	ACUCONSOLE
Registration Number:	2256845	ACUSOLVE
Registration Number:	3762778	ACUSIM SOFTWARE

**CORRESPONDENCE DATA**

Fax Number: (248)614-6197  
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*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.*  
 Correspondent Name: Christin Brown  
 Address Line 1: 1820 E. Big Beaver Road  
 Address Line 2: Office of the General Counsel  
 Address Line 4: Troy, MICHIGAN 48083-2031

NAME OF SUBMITTER:	Christin Brown
Signature:	/Christin E. Brown/
Date:	11/21/2011
<b>Total Attachments: 4</b> source=Acusim TM Assignment and Schedule A#page1.tif source=Acusim TM Assignment and Schedule A#page2.tif source=Acusim TM Assignment and Schedule A#page3.tif source=Acusim TM Assignment and Schedule A#page4.tif	

Our Reference: AEI2- 35

TRADEMARK MARK

**TRADEMARK ASSIGNMENT**

WHEREAS, AcuSim, Inc. (hereinafter "AcuSim"), a corporation existing under the laws of the state of California whose principal office is located at 2685 Marine Way, Suite: 1421, Mountain View, CA94043 hereafter referred to as "Assignor", is desirous of assigning all of its right, title and interest in the trademarks and copyrights and registrations thereof as listed in attached Schedule A; and

WHEREAS, Altair Engineering, Inc., a corporation organized and existing under the laws of the state of Michigan, and having a principal place of business at 1820 East Big Beaver Road, Troy, MI 48083 hereafter referred to as "Assignee", is desirous of acquiring said trademarks and copyrights and registrations thereof.

NOW, THEREFORE, for One (\$1.00) Dollar and other good and valuable consideration, receipt and sufficiency of which is hereby acknowledged, said Assignor does hereby assign unto said Assignee all right, title and interest in and to said trademarks and copyrights and registrations thereof and the goodwill of the business symbolized by the marks.

AcuSim, Inc.

By: \_\_\_\_\_

Date: December 31, 2010



**SCHEDULE A**  
**Intellectual Property Owned by ACUSIM and Filings and Applications Therefor**

ACUSIM is engaged in the development, marketing and selling of Computational Fluid Dynamics (CFD) software products, solutions and services.

The ACUSIM Products are component solver technologies: AcuSolve™, AcuConsole™, AcuDesktop™, AcuCatia2Acis, and AcuFieldView.

AcuSolve is a finite element based computational fluid dynamics (CFD) solver for the solution of the flow equations. Its features include:

- Incompressible and weakly compressible Navier-Stokes and Stokes solver in three dimensions.
- Thermal analysis and conjugate heat transfer.
- Thermal shell.
- Enclosure radiation and view factor computation.
- Solar radiation.
- Multi-species analysis.
- One equation Spalart-Allmaras turbulence model.
- Dynamic subgrid-scale LES turbulence model.
- Hybrid RANS/LES turbulence model.
- Arbitrary Eulerian Lagrangian (ALE) and free surface technology.
- Sliding mesh and non-conformal mesh interface.
- Rotating flows and multiple reference frame technology.
- Coupled flow and rigid body dynamics analysis.
- Practical Fluid/Structure Interaction (FSI).
- Direct-coupling Fluid/Structure Interaction (DC-FSI).
- Component technology: fan and heat exchanger components.
- Computation Aero-Acoustics (CAA) output mechanism.
- Transient and steady state analyses.
- Automatic time-stepping options.
- Powerful linear equation solver for coupled pressure/velocity and coupled temperature/flow systems.
- Parallel implementation with automatic domain decomposition.
- Unstructured finite element technology.
- 4-node tetrahedron, 5-node pyramid, 6-node wedge, 8-node brick and 10-node tetrahedron elements.
- User defined functions.
- Laminar/turbulent, steady/transient particle tracer.

AcuSolve is supported on the following platforms:

- HP (PA-RISC)
- HPIPF (Itanium)
- LINUX (32/64bit Intel)

- LINUXIPF (Itanium)
- Windows XP/Vista/7 (32/64bit Intel)

AcuConsole is a GUI-based pre-processor for AcuSolve. Its features include:

- Read CAD geometries: Pro/E, Parasolid, ACIS and Discrete.
- Read meshes generated by third party mesh generators.
- Read AcuSolve input file.
- Display CAD and Mesh in a 3D visualization window.
- Transform (rotate, zoom and pan) objects and change display types.
- Specify mesh and problem parameters via an intelligent GUI.
- Generate unstructured tetrahedral mesh with boundary layer.
- Write AcuSolve input file.
- Read eigenmodes from Abaqus, Nastran and Calculix databases.
- Interface to JMAG electro-magnetic code.
- Launch AcuSolve.
- Monitor meshing and solution progress.
- Launch acuProbe for plotting solution time history.
- Ability to customize AcuConsole for specific application.
- Has limited CAD generation capability.

AcuConsole is supported on the following platforms:

- Linux (32/65bit Intel)
- Windows XP/Vista/7 (32/64bit Intel)

AcuDesktop is a repackaging of AcuSolve and AcuConsole for low-end market at a lower price. This includes all of the features of AcuSolve and AcuConsole except for ALE, free surface, FSI and rigid body coupling. It is also only available on Windows.

AcuCatia2Acis is an add-on module for AcuConsole allowing the user to import Catia V5 CAD models. AcuCatia2Acis is supported on the following platforms:

- LINUX (64bit Intel)
- Windows XP/Vista/7 (32/64bit Intel)

AcuFieldView is a customized version of FieldView from Intelligent Light, which allows for interactive visualization of AcuSolve results. AcuFieldView is supported on the following platforms:

- LINUX (32/64bit Intel)
- Windows XP/Vista/7 (32/64bit Intel)

ACUSIM also has full documentation and training material for the above software package.

ACUSIM has created, but yet to be launched, an online computational fluid dynamic solution provider, called CFDCalc. CFDCalc allows end users to obtain solutions to specific CFD problems (Calculator), in the context of Software as a Service (SaaS). It also allows CFD

domain experts to design, develop and deploy their Calculators on CFDCalc, in the context of Platform as a Service (PaaS).

**ACUSIM has the following Registered Trademarks:**

Registered Trademark	Status
ACUSIM Software (including logo)	Registered – exp. 23-Mar-2020
AcuSolve	Registered – exp. 29-Jun-2019
AcuConsole	Registered – exp. 09-Mar-2020
AcuDesktop	NOA Issued
CFDCalc (including logo)	Published
CFDCalc [in California]	Registered – exp. 22-Feb-2015

The following web addresses are owned by ACUSIM: acusim.com, acusim.net, acusolve.com, acusolve.net, acuconsole.com, acuconsole.net, acudesktop.com, acudesktop.net, acumodel.com, acumodel.net, calccfd.com, cfdcalc.com, cfdcompute.com, cfdcomputer.com, cfdinstant.com, cfdquick.com, cfdsim.com, cfdsimulator.com, computecfd.com, computercfd.com, instantcfd.com, quickefd.com, simcfd.com, simulatorefd.com, caecalc.com, calc-cfd.com, calcaec.com, calcdyn.com, calcfea.com, cfd-calc.com, cfd-sim.com, devcfd.com, dyncalc.com, sim-cfd.com, testcfd.com, acusimtest.com, calccsd.com, and csdcalc.com. Note that officially these are registered under the Shareholder.