



April 11, 2016

BY FEDERAL EXPRESS & EMAIL

Managing Director of Khronos
Khronos Group
9450 SW Gemini Drive
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RE: Disclosure Certificate for OpenCL 2.2 C++ Specification

Dear Sir or Madam:

Apple submits this disclosure certificate in response to the email dated March 2, 2016, starting a Ratification Review Period for the OpenCL 2.2 Provisional Specification and related specifications and extensions, consisting of the following:

1. OpenCL Specification, version 2.2
2. OpenCL C++ Specification, version 1.0
3. OpenCL Environment Specification, version 2.2
4. OpenCL Extension Specification, version 2.2

Apple's disclosure certificate identifies in Exhibit A those patent assets that Apple believes may contain one or more claims that if issued would likely be Necessary Patent Claims to the OpenCL C++ Specification, version 1.0.

To the extent any patents or patent applications set forth in Exhibit A or owned by Apple now or in the future, or any parents thereof, or amendments, continuations, divisionals, continuations-in-part, re-issues or foreign counterparts thereof, contain Necessary Patent Claims, Apple does not agree to make available a Reciprocal License to such Necessary Patent Claims for the OpenCL 2.2 C++ Specification or any other future versions or extensions thereof.

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Any questions regarding this communication should be directed to:

BJ Watrous
Vice President and Chief IP Counsel
Apple Inc.

Very truly yours,

BJ Watrous
Vice President & Chief IP Counsel



EXHIBIT A

U.S. Patent, App., Or Pub #	Technology	Applicable Sections -OpenCL C++ Specification, version 1.0
US6182107	Management Of Reference Object Lifetimes In Object Oriented Programs	OpenCL C++ Specification: Sections 2 and 3
US6976249	Method For Embedding Object Codes In Source Codes	OpenCL C++ Specification: Sections 2 and 3
US7694289	Method For Embedding Object Codes In Source Codes	OpenCL C++ Specification: Sections 2 and 3
US8370822	Compiling Techniques For Providing Limited Accuracy And Enhanced Performance Granularity	OpenCL C++ Specification: Sections 2 and 4
US9292340	Application Interface On Multiple Processors	OpenCL C++ Specification: Sections 2 and 3
US20150022538	Enqueuing Kernels From Kernels On GPU/CPU	OpenCL C++ Specification: Sections 2 and 3
US20140201746	Parallel Runtime Execution On Multiple Processors	OpenCL C++ Specification: Sections 2 and 3
US20140306975	Multi-platform Image Processing Framework	OpenCL C++ Specification: Sections 2 and 3
US20150347107	Unified Intermediate Representation	OpenCL C++ Specification: Sections 2 and 3
15/008,337 (unpublished continuation of US9292340)	This application relates generally to parallel computing	OpenCL C++ Specification: Sections 2 and 3
14/977,204 (unpublished continuation of US9250697)	This application relates generally to parallel computing	OpenCL C++ Specification: Sections 2 and 3