

7 Documents

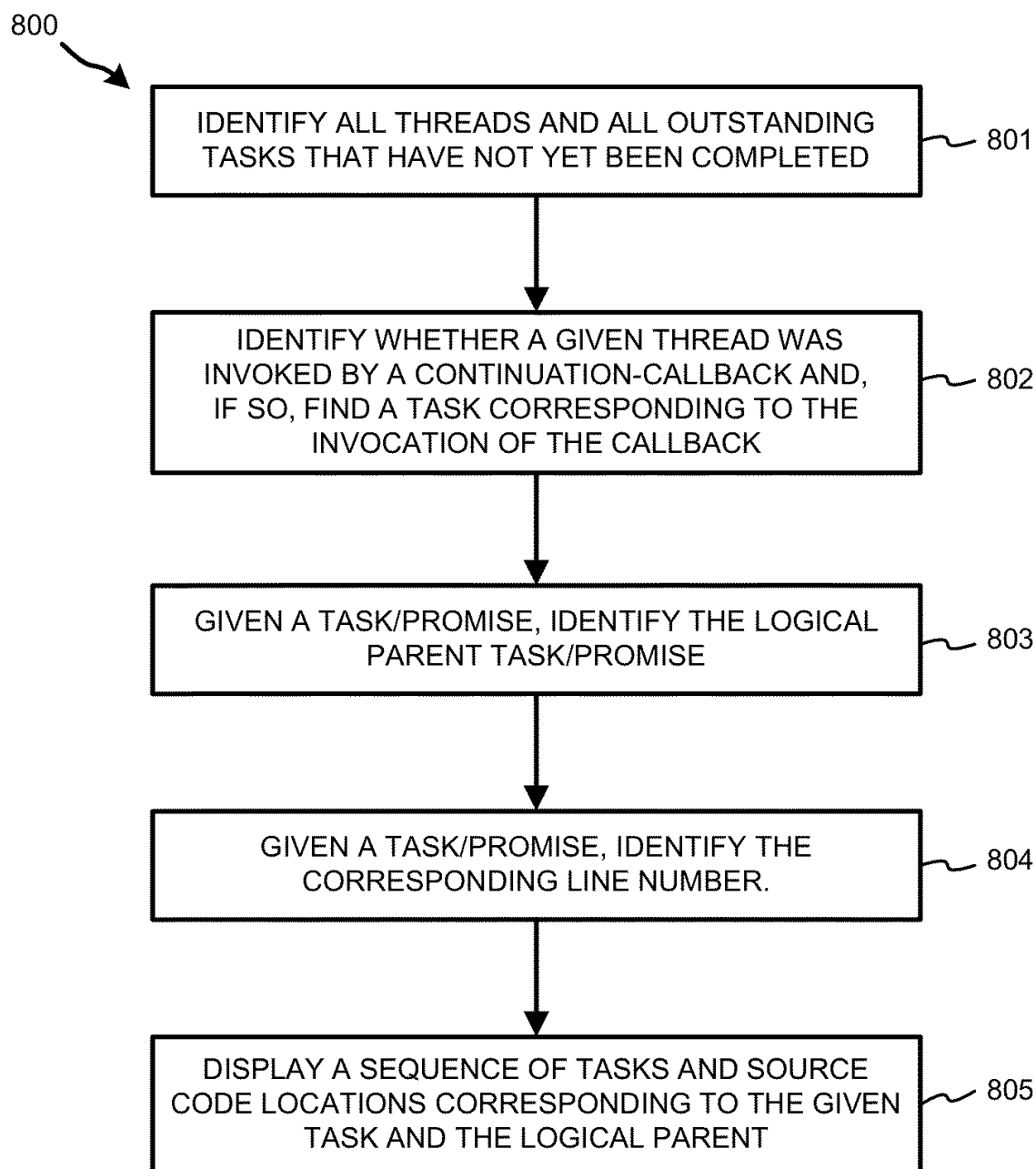
Publication numbers	Title	Current assignees
US20140237452 A1	Call stacks for asynchronous programs	MICROSOFT TECHNOLOGY LICENSING
US20160026504 A1	Asynchronous dispatcher for application framework	HOME BOX OFFICE
CA2960181 A1	Asynchronous task multiplexing and chaining	HOME BOX OFFICE
US20140277735 A1	Apparatus and methods for providing a persistent companion device	JIBO
US20160026521 A1	Exception wrapping system	HOME BOX OFFICE
US20140245134 A1	Remotable contracts for the web	MICROSOFT TECHNOLOGY LICENSING
CN104537713 A	Novel three-dimensional reconstruction system	TSINGHUA UNIVERSITY

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Title

(EP2956862)

Call stacks for asynchronous programs

Images**Publication data including kind & date**

US20140237452	A1	2014-08-21	US20140237452
WO2014126826	A1	2014-08-21	WO2014126826
US9092564	B2	2015-07-28	US9092564
BR112015019099	A1	2015-08-25	BR112015019099
CN105074672	A	2015-11-18	CN105074672
EP2956862	A1	2015-12-23	EP2956862
IN4448/CHENP/2015	A	2016-07-01	IN2015CN04448
BR112015019099	A2	2017-08-22	BR112015019099
CN105074672	B	2017-11-24	CN105074672B



[EP2956862](#)

B1 2018-06-13 EP2956862

Abstract

(EP2956862)

Embodiments provide call stacks for asynchronous programming. A set of all asynchronous call stacks is found by first identifying all threads and all outstanding tasks that have not yet been completed. Optionally, all outstanding continuation-delegates or lambdas that are in the windows queue waiting to be scheduled and/or all outstanding delegates or lambdas in a language-specific queue are also identified. Next, for each thread, identify whether it was invoked by a continuation-callback and, if so, find the corresponding task/promise. Next, given a task/promise, identify the logical parent task/promise. Optionally, given a delegate or lambda, identify its logical parent task/promise. The sequence of logical tasks/promises constitutes an asynchronous call stack in a program. Further information may optionally be retrieved to make the asynchronous call stack more useful. Finally, given a task/promise, identify the corresponding line number and location in source code.

Inventors

WISCHIK LUCIAN

FEIVESON ERIC

Latest standardized assignees - inventors removed

MICROSOFT TECHNOLOGY LICENSING

Publication dates

2014-08-21

2014-08-21

2015-07-28

2015-08-25

2015-11-18

2015-12-23

2016-07-01

2017-08-22

2017-11-24

2018-06-13

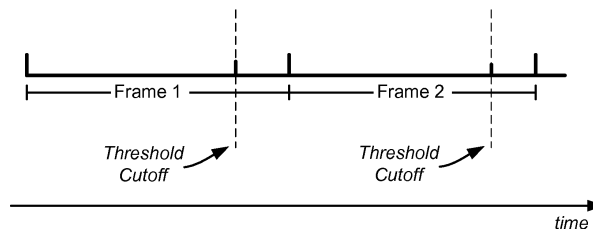
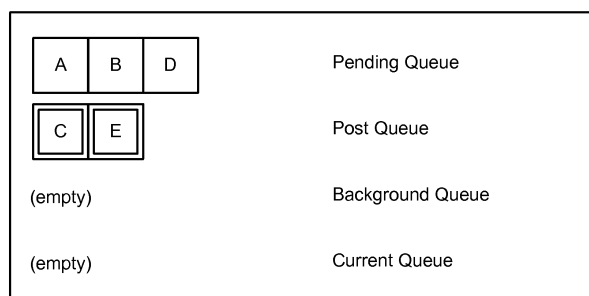
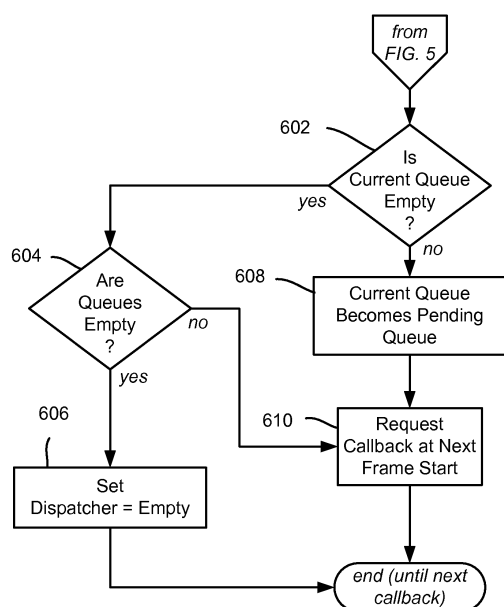
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Title

(WO201614707)

Asynchronous dispatcher for application framework

Images



Publication data including kind & date

US20160026504	A1	2016-01-28	US20160026504
WO2016014707	A1	2016-01-28	WO201614707
US9753785	B2	2017-09-05	US9753785
US20170364393	A1	2017-12-21	US20170364393



Abstract

(WO201614707)

The described technology is directed towards an asynchronous dispatcher (102) including control logic (110) that manages a queue set (112-115), including to dequeue and execute work items from the queue on behalf of application code (106) executing in a program (108). The dispatcher yields control to the program to allow the program and application code to be responsive with respect to user interface operations.

Inventors

FINNIGAN PATRICK
 FURTWANGLER NATHAN J E
 CLARK BRENDAN JOSEPH
 FURTWANGLER BRANDON C

Latest standardized assignees - inventors removed

HOME BOX OFFICE

Publication dates

2016-01-28
 2016-01-28
 2017-09-05
 2017-12-21

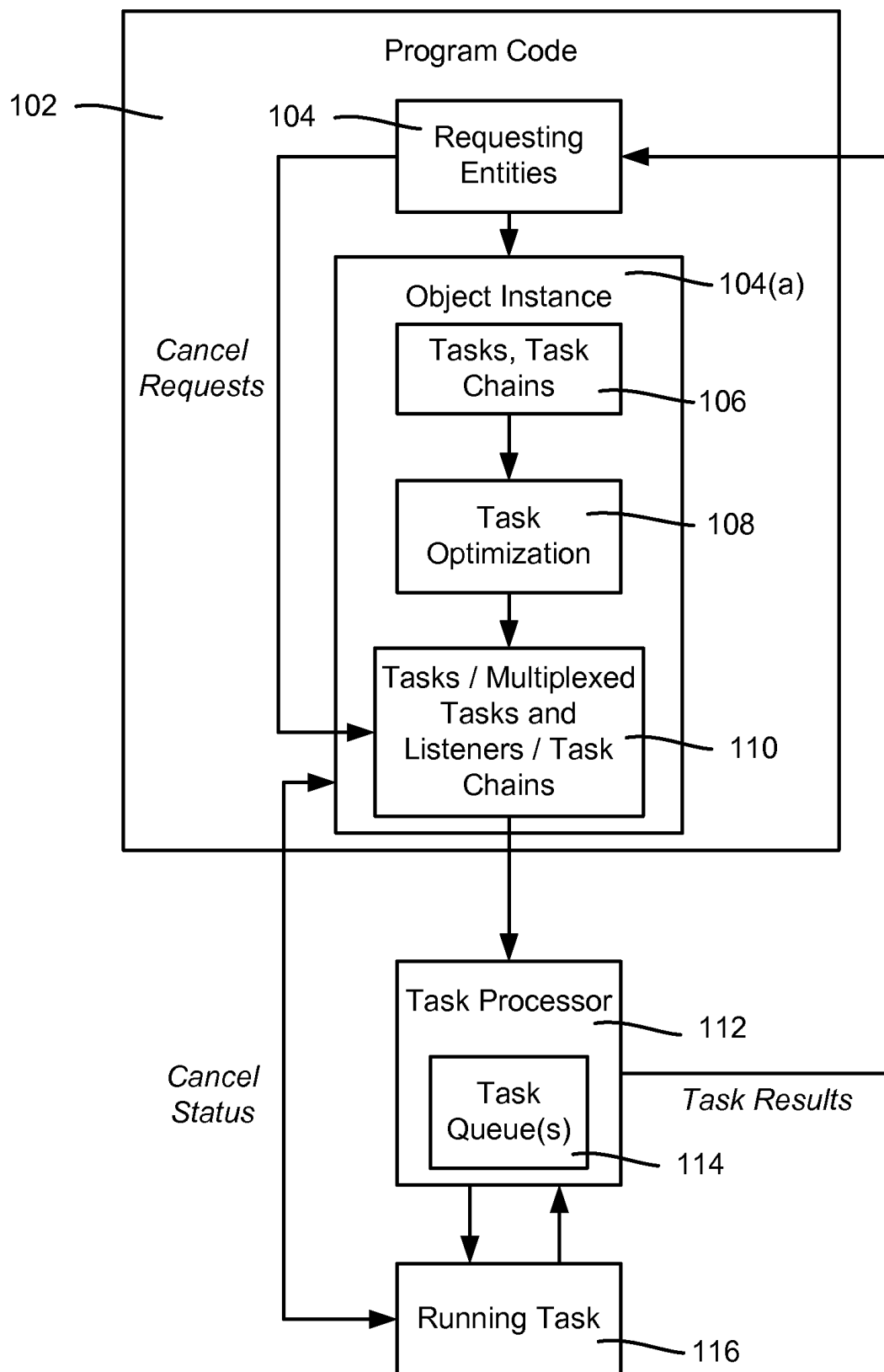
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Title

(EP3189435)

Asynchronous task multiplexing and chaining

Images


Publication data including kind & date

CA2960181	A1	2016-03-10	CA2960181
US20160070595	A1	2016-03-10	US20160070595
WO2016036983	A1	2016-03-10	WO2016036983
US20170109201	A1	2017-04-20	US20170109201
SG11201701779W	A	2017-04-27	SG11201701779W
US9658885	B2	2017-05-23	US9658885
MX2017002873	A	2017-05-30	MX2017002873



EP3189435

A1 2017-07-12 EP3189435

Abstract

(EP3189435)

The described technology is directed towards sharing asynchronous (async) tasks between task chains, including in a way that prevents cancellation of lower-level chain entity from cancelling a shared async task. A shared async task is wrapped in multiplexer code that maintains lower-level entity identities as a set of listeners of the shared async task, and when a listener cancels, only removes that listener from the set of listeners so that the shared async task does not cancel as long as one listener remains in the set. Also described is optimization to share an async task, and wrapping tasks in cancel-checking code that prevents the task from running its work if the task is intended to be cancelled but is queued to run before the cancel request is queued to run.

Inventors

PARKER J JORDAN C
FURTWANGLER TYLER R
FURTWANGLER BRANDON C
FURTWANGLER NATHAN J E
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Latest standardized assignees - inventors removed

HOME BOX OFFICE

Publication dates

2016-03-10
2016-03-10
2016-03-10
2017-04-20
2017-04-27
2017-05-23
2017-05-30
2017-07-12

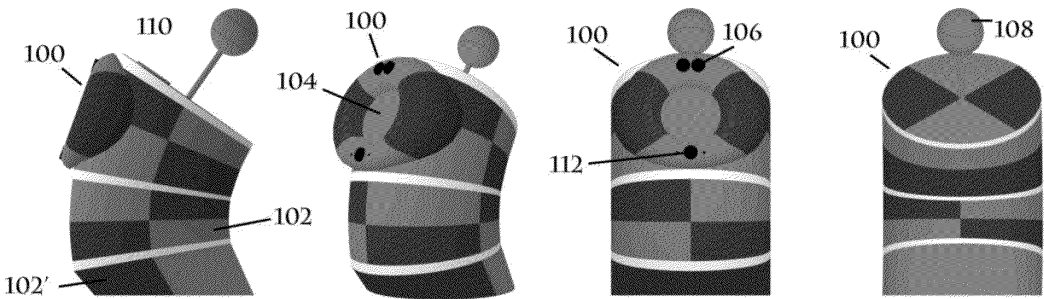
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Title

(EP2974273)

Apparatus and methods for providing a persistent companion device

Images



Publication data including kind & date

US20140277735	A1	2014-09-18	US20140277735
CA2904359	A1	2014-09-25	CA2904359
WO2014152015	A1	2014-09-25	WO2014152015



AU2014236686	A1	2015-09-24	AU2014236686				
EP2974273	A1	2016-01-20	EP2974273				
CN105409197	A	2016-03-16	CN105409197				
KR20160034243	A	2016-03-29	KR20160034243				
JP2016522465	A	2016-07-28	JP2016522465				
HK1217847	A1	2017-01-20	HK1217847				
AU2014236686	B2	2017-06-15	AU2014236686				
AU2017228574	A1	2017-10-05	AU2017228574				
EP2974273	A4	2018-01-10	EP2974273				

Abstract

(EP2974273)

A method includes providing a telecommunications enabled robotic device adapted to persist in an environment of a user, receiving an instruction to photograph one or more persons in the environment according to a time parameter and photographing the one or more persons in accordance with the time parameter resulting in one or more photographs.

Inventors

BREAZEAL CYNTHIA

Latest standardized assignees - inventors removed

JIBO

Publication dates

2014-09-18

2014-09-25

2014-09-25

2015-09-24

2016-01-20

2016-03-16

2016-03-29

2016-07-28

2017-01-20

2017-06-15

2017-10-05

2018-01-10

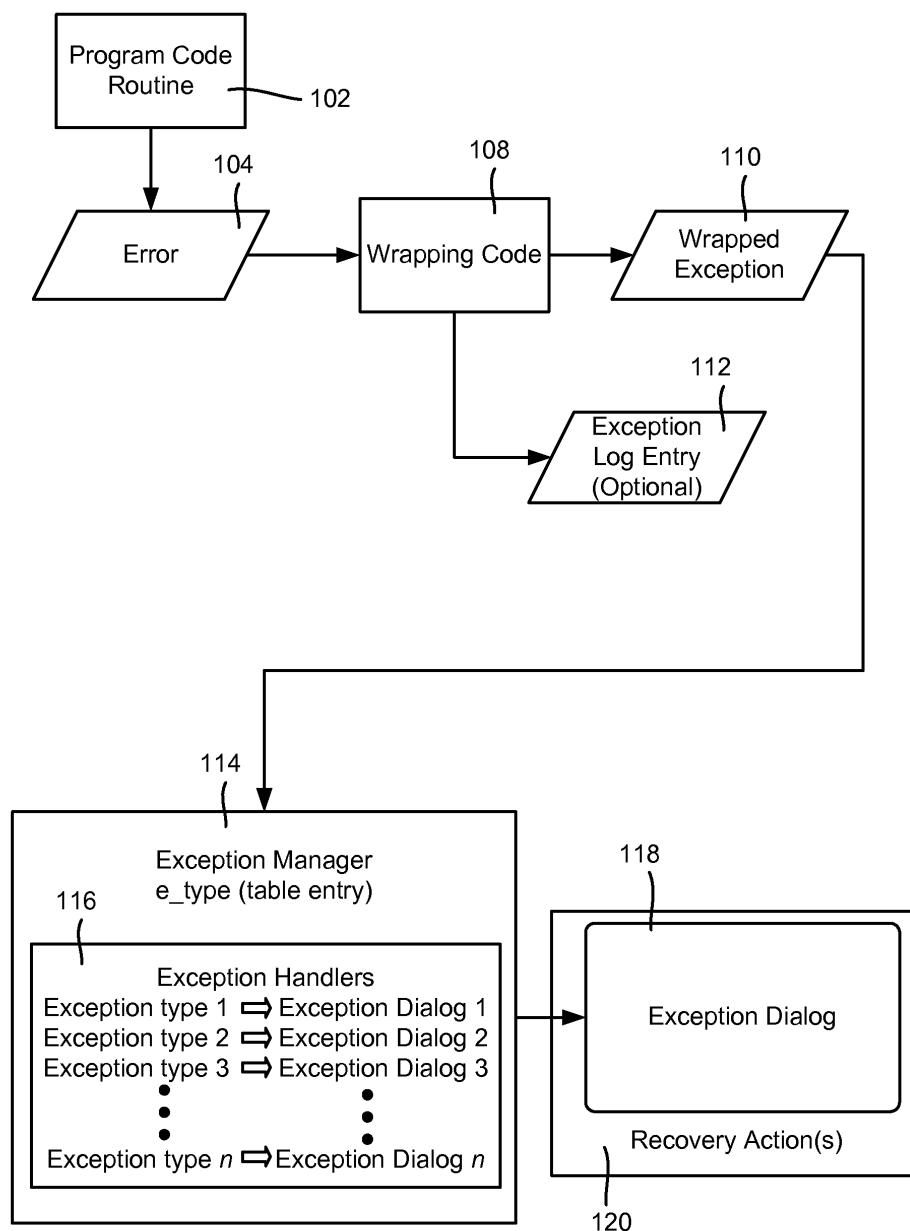
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Title

(WO201614708)

Exception wrapping system

Images



Publication data including kind & date

US20160026521	A1	2016-01-28	US20160026521
WO2016014708	A1	2016-01-28	WO201614708
US20170161134	A1	2017-06-08	US20170161134
US9697071	B2	2017-07-04	US9697071
US9864645	B2	2018-01-09	US9864645
US20180121276	A1	2018-05-03	US20180121276



Abstract

(WO201614708)

The described technology is directed towards handling errors in an application program that allows for a taxonomy and precedence order of errors. Exception wrapping includes preserving relevant information with an exception, and consolidates a series of errors into a single dominant exception instance that is handled appropriately depending on the exception type. Also described is a centralized exception manager that outputs an interactive dialog based upon the

exception type, and takes a recovery action based upon user interaction with the dialog.

Inventors

FINNIGAN PATRICK

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Latest standardized assignees - inventors removed

HOME BOX OFFICE

Publication dates

2016-01-28

2016-01-28

2017-06-08

2017-07-04

2018-01-09

2018-05-03

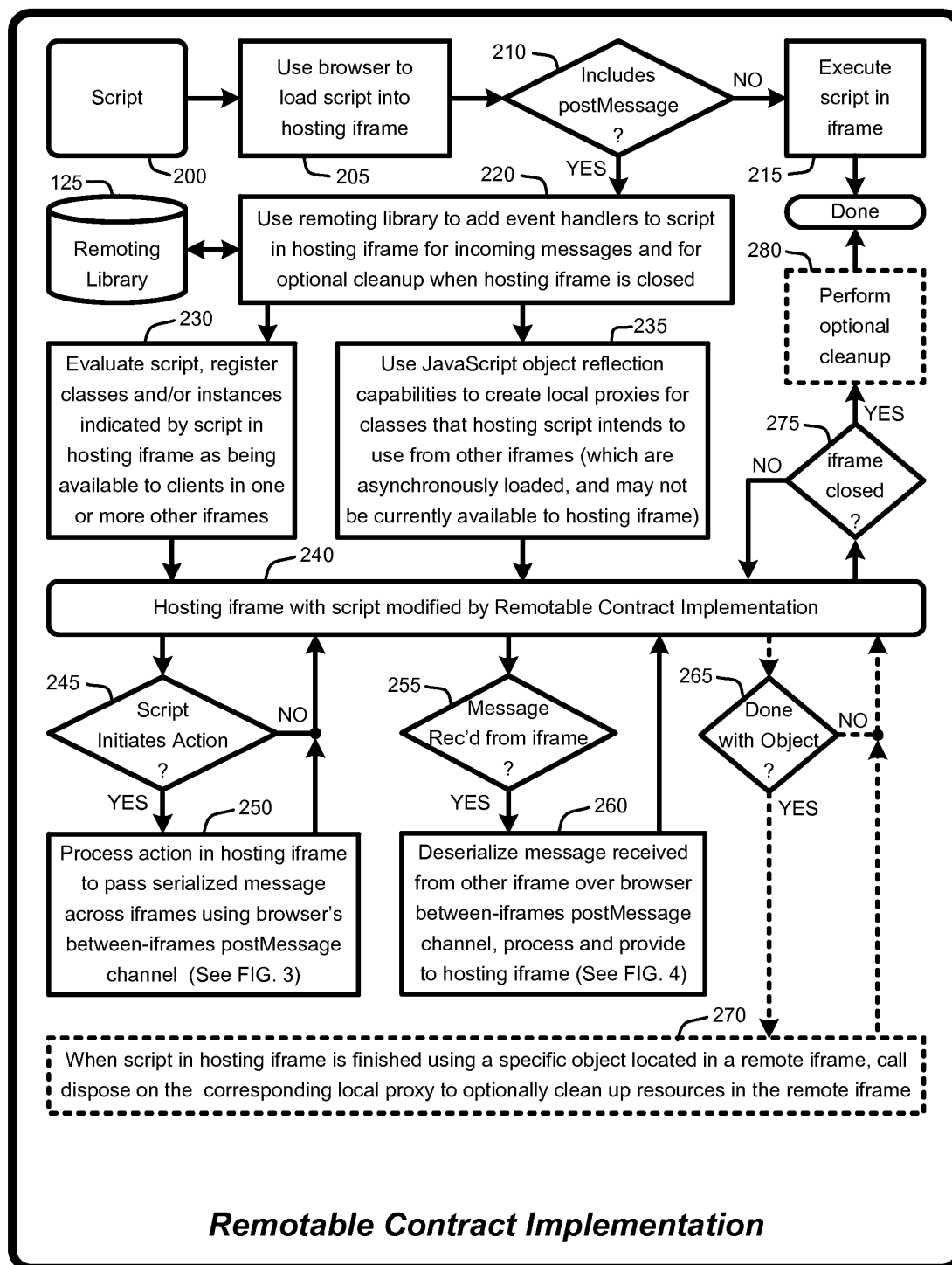
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Title

(US9569292)

Remotable contracts for the web

Images



Publication data including kind & date

US20140245134

A1 2014-08-28

US20140245134

US9569292

B2 2017-02-14

US9569292



Abstract

(US9569292)

A "Remotable Contract Implementation", as described herein, provides various techniques for implementing static type checking of remotable contracts across iframes using scripts such as TypeScript, JavaScript, AJAX, etc., thereby enabling structured data and rich patterns of control flow across iframe boundaries. The Remotable Contract Implementation enables the static type-checking over the limited browser postMessage channel of communication across iframes, by generating statically type-checked proxies at runtime based on dynamic reflection, and allowing for full fidelity of JavaScript control flow interactions (e.g. methods, events, asynchronous communications, etc.) over that channel. Further, in various embodiments, the Remotable Contract Implementation provides various methods that can be used to produce useful application context for otherwise isolated applications by providing access to particular browser resources or information

that would otherwise be unavailable over the postMessage communication channel using conventional scripting techniques.

Inventors

PORTNOY WILL
ICKMAN STEVE
LAIRD-MCCONNELL TOM

Latest standardized assignees - inventors removed

MICROSOFT TECHNOLOGY LICENSING

Publication dates

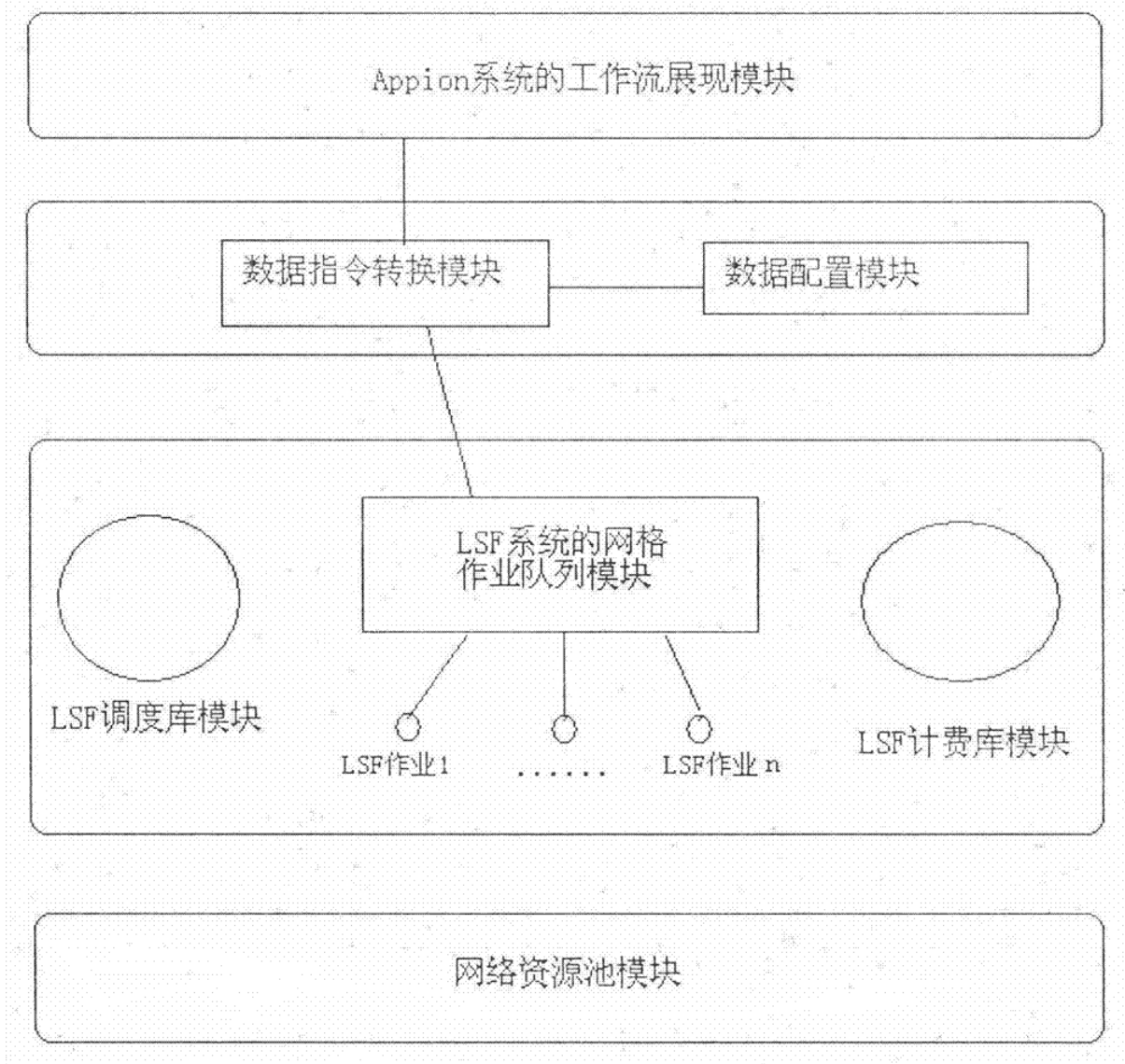
2014-08-28
2017-02-14

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Title

(CN104537713)
Novel three-dimensional reconstruction system

Images



Publication data including kind & date

CN104537713	A	2015-04-22	CN104537713
CN104537713	B	2017-10-03	CN104537713B



Abstract

(CN104537713B)

A novel three-dimensional reconstruction system comprises a workflow presenting module of an Appion system, a data instruction conversion module, a data configuration module, a grid job queue module of an LSF system, an LSF scheduling library module, an LSF billing library module and a network resource pool module. The novel system based on the LSF system, the Appion system and a cryo-electron microscopy technology achieves three-dimensional reconstruction. The system ingeniously and organically combines the Appion system, a cryo-electron microscopy biological structure research technology and a grid calculation technology based on an LSF, and forms a novel cryo-electron microscopy three-dimensional reconstruction technology. The technology is mainly characterized by achieving a three-dimensional reconstruction assembly line technology, and the assembly line technology can effectively reduce work intensity of electron microscopic image analysis of biologic samples and effectively improve research efficiency of an electron microscopy three-dimensional reconstruction method in structural biology.

Inventors

YANG TAO

XU YANJI

WANG YAKUN

GE YUNFENG

LIN YU

Latest standardized assignees - inventors removed

TSINGHUA UNIVERSITY

Publication dates

2015-04-22

2017-10-03