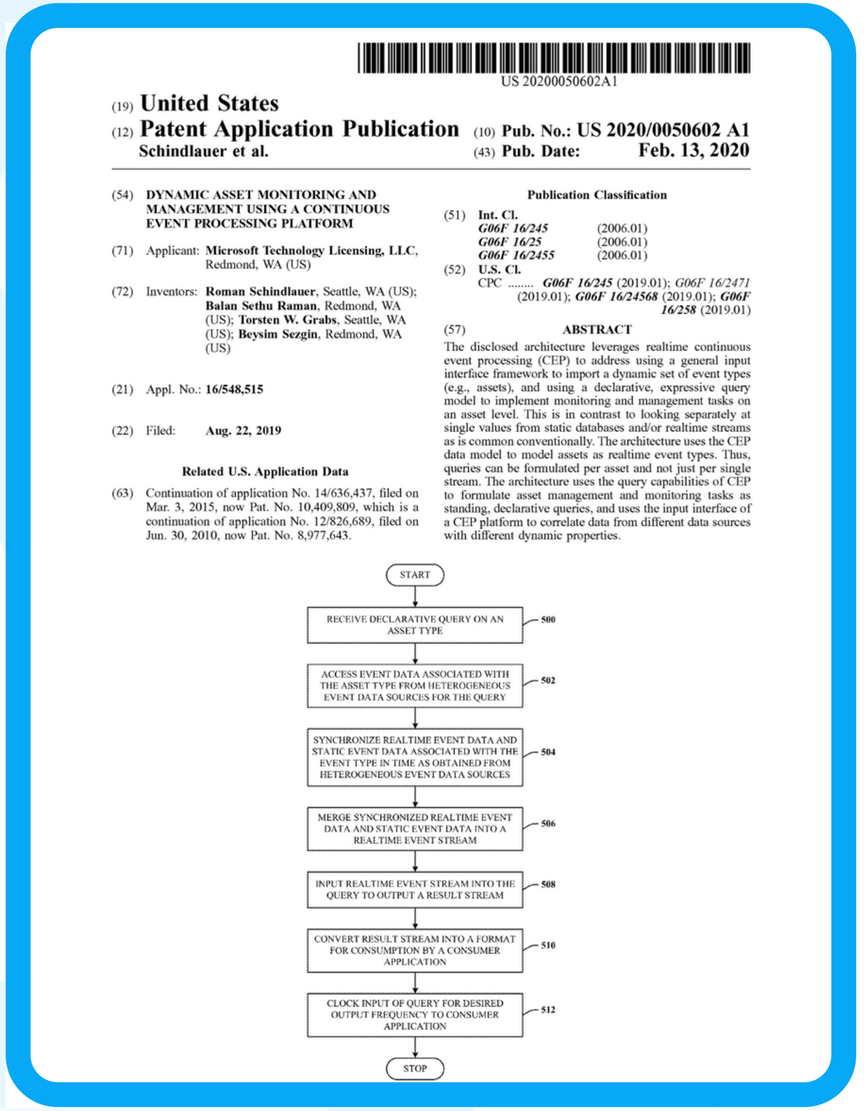
Sample Case Report

By Triangle IP



US 20200050602A1

(19) **United States**

(12) **Patent Application Publication**
Schindlauer et al.

(10) **Pub. No.: US 2020/0050602 A1**
(43) **Pub. Date: Feb. 13, 2020**

(54) **DYNAMIC ASSET MONITORING AND MANAGEMENT USING A CONTINUOUS EVENT PROCESSING PLATFORM**

(71) Applicant: **Microsoft Technology Licensing, LLC**, Redmond, WA (US)

(72) Inventors: **Roman Schindlauer**, Seattle, WA (US); **Balan Sethu Raman**, Redmond, WA (US); **Torsten W. Grabs**, Seattle, WA (US); **Beysim Sezgin**, Redmond, WA (US)

(21) Appl. No.: **16/548,515**

(22) Filed: **Aug. 22, 2019**

Related U.S. Application Data

(63) Continuation of application No. 14/636,437, filed on Mar. 3, 2015, now Pat. No. 10,409,809, which is a continuation of application No. 12/826,689, filed on Jun. 30, 2010, now Pat. No. 8,977,643.

Publication Classification

(51) **Int. Cl.**
G06F 16/245 (2006.01)
G06F 16/25 (2006.01)
G06F 16/2455 (2006.01)

(52) **U.S. Cl.**
CPC ***G06F 16/245*** (2019.01); *G06F 16/2471* (2019.01); ***G06F 16/24568*** (2019.01); ***G06F 16/258*** (2019.01)

(57) **ABSTRACT**

The disclosed architecture leverages realtime continuous event processing (CEP) to address using a general input interface framework to import a dynamic set of event types (e.g., assets), and using a declarative, expressive query model to implement monitoring and management tasks on an asset level. This is in contrast to looking separately at single values from static databases and/or realtime streams as is common conventionally. The architecture uses the CEP data model to model assets as realtime event types. Thus, queries can be formulated per asset and not just per single stream. The architecture uses the query capabilities of CEP to formulate asset management and monitoring tasks as standing, declarative queries, and uses the input interface of a CEP platform to correlate data from different data sources with different dynamic properties.

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Bibliographic Data:

Application Title	:	Dynamic asset monitoring and management using a continuous event processing platform
Application Serial Number	:	16/548,515
Application Date	:	08-22-2019
Registration/Publication Number	:	US20200050602A1
Art Unit	:	2168 - Data Bases & File Management
Inventor(s)	:	Roman Schindlauer, Balan Sethu Raman, Torsten W. Grabs, Beysim Sezgin
Patent Counsel	:	Microsoft Corporation
Assignee	:	Microsoft Corp Microsoft Technology Licensing LLC

Executive Summary

The application is pending and is in good health. It's the third patent in the family. It has been almost 2 years since the application has been filed with 1 round of argument so far. The average number of argument rounds received for an application falling under the 2168 art unit (Data Bases & File Management) under which the application falls is 1.4. The allowance time is 2.5 years from filing. Compared to this, the examiner handling the case (Dangelino N Gortayo) issues an average of 1.2 argument rounds and allows the application in 2.7 years from filing. There is a 79% chance of the subject application getting allowed.

The cases prosecuted by the patent counsel, Microsoft Corporation, have less than average allowance rates, and more than average allowance time, and the number of argument rounds as compared to similarly examined cases.

Patent Summary*

The disclosed architecture leverages realtime continuous event processing (CEP) to address using a general input interface framework to import a dynamic set of event types (e.g., assets), and using a declarative, expressive query model to implement monitoring and management tasks on an asset level. This is in contrast to looking separately at single values from static databases and/or realtime streams as is common conventionally. The architecture uses the CEP data model to model assets as realtime event types. Thus, queries can be formulated per asset and not just per single stream. The architecture uses the query capabilities of CEP to formulate asset management and monitoring tasks as standing, declarative queries, and uses the input interface of a CEP platform to correlate data from different data sources with different dynamic properties.

Tags

Event Processing, Asset Monitoring, Query Model, Streams, Static Database, CEP

*The patent summary can any time be edited by the authorized users within the TIP tool

Prosecution Health:

Health	:	Good
Status	:	Non-final action mailed
Office Action(s)	:	1
Patentability Score*	:	7.9

Attorney Details:

Thomas Irwin	216-264-4075	77,129
Name	Phone Number	Reg. No.

* Read Annex

Patent Counsel and Examiner Analytics

Case Health	79% Predicted Allowance Rate	1 Total Argument Rounds	2.9 Years Predicted Allowance Time
Microsoft Corporation Patent Counsel	Less Than Average ↓ Allowance Rate (In last 5 years)	More Than Average ↑ Argument Rounds (In last 5 years)	More Than Average ↑ Allowance Time (In last 5 years)
Dangelino N Gortayo Examiner	85% Avg. Allowance Rate	1.2 Avg. Argument Rounds	2.7 Years Avg. Allowance Time
GAU - 2168	83% Avg. Allowance Rate	1.4 Avg. Argument Rounds	2.5 Years Avg. Allowance Time

*The statistics provided above are calculated based on the applications filed in the last 5 years

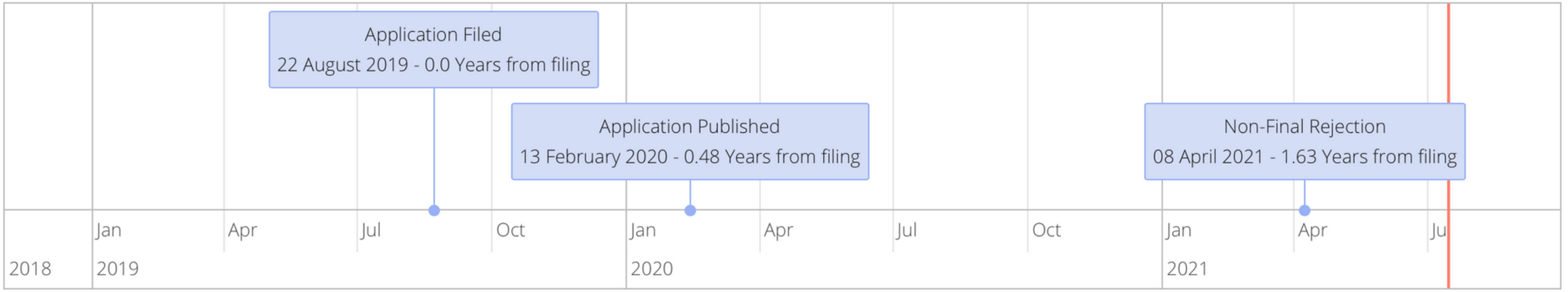
Detailed Examiner Analytics

	Examiner	Group Art Unit
Total Applications:	597	8172
Granted Patents:	385	5477
Allowance Rate:	70.26%	71.46%
Abandoned/Rejected Applications:	163 (29.74%)	2147 (28.54%)
In-Process Applications:	49	648
Allowance Time:	3.68 Years	3.77 Years
Average Office Actions:	2.39	2.58

The **interviews** were conducted for **42.21%** of cases handled by the examiners. The applicants have **appealed 8.04%** of the examiner's cases, out of which **3.69%** has been **affirmed** by the board, and **2.68% has been reversed**.

*The statistics provided above are based on all the applications handled by the examiner, irrespective of time range

Application Timeline



Date of the Report

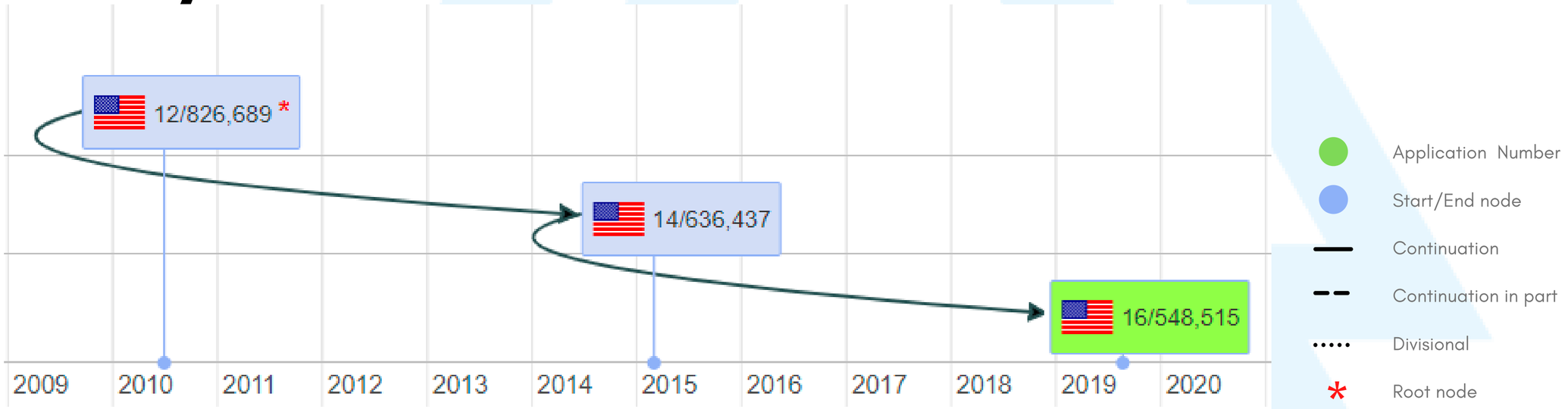
Associated Costs

Predicted Cost	Remaining Cost	Next Cost
$40,130	$16,460	$3,000

Parent Continuity Data

Application Number	Publication Number	Filing Date	Issue Date	Continuation Type
14/636,437	US10409809B2	03-03-2015	09-10-2019	CON
12/826,689	US8977643B2	06-30-2010	03-10-2015	CON

Family Tree



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Your gut has become obsolete with so much analytical data out there to help you make decisions.

Thomas Franklin
Co-Founder, Triangle IP

Triangle IP

Triangle IP @TriangleIP @triangleip TIP Terminology

Annex

Case Health	Health of this case based on predicted statistics
Patentability Score	The likelihood of receiving a patent on a scale of 10, 10 being the highest. The TIP tool provides an automatic patentability score to your case based on the invention summary. The user also has the option to enter a patentability score manually, which is different from the system-generated score.
Latest OA	Latest available office action
Avg. OA(s)	Average number of office actions taken
Next Cost	Predicted cost for the next stage in the prosecution cycle
Remaining Cost	Remainder of the predicted cost that may be incurred to the applicant

Continuity Data	Continuity data is information about continuation applications that may have been filed based on a parent application.
Parent Continuity Data	Data related to the parent application. Parent application is typically the first non-provisional patent application filed for an invention.
Child Continuity Data	Data related to child applications. A child patent application is filed while a parent application is still pending (i.e., not issued or abandoned). By linking a child to a parent through a priority claim, the child application benefits from the priority date of the parent(s).
Number of Rejections	The number of Office Actions predicted to be received by the USPTO, based on the summary input by the user
Allowance Rate	The percentage chance of an idea getting allowed/granted by the USPTO
Time of Allowance	The predicted time in which the idea is likely to be granted by the USPTO