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[Continued on next page]

(54) **Title:** CONTROLLING DISTRIBUTION OF RESOURCES ON A NETWORK

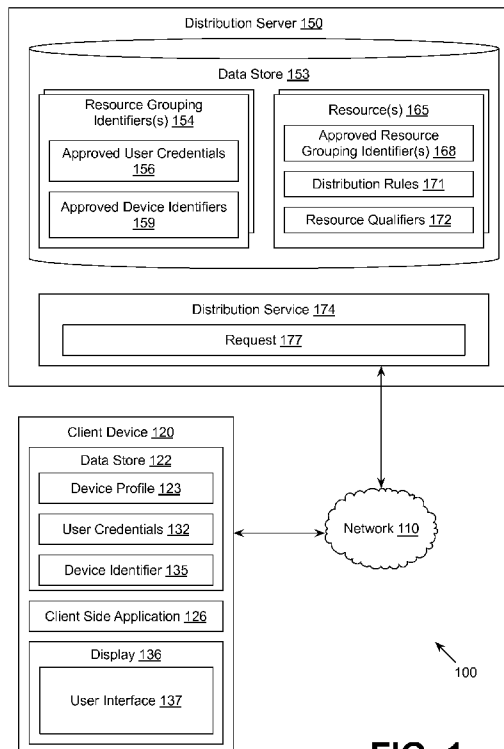


FIG. 1

(57) **Abstract:** Disclosed are various embodiments for controlling distribution of resources on a network. In one embodiment, a distribution service receives a request from a client device to access resources hosted by a distribution service. In response, the distribution service determines whether the client device is authorized to access the distribution service. The distribution service identifies which of the resources hosted by the distribution service are accessible to the client device based on the resource grouping identifiers associated with the client device. The distribution service determines which distribution rules are associated with the identified resources, the distribution rules including location rules and time rules. The distribution service then transmits the identified resources and identified distribution rules to the client device, where the resources are configured to be exclusively accessible via a containerized client application on the client device while the client device satisfies the distribution rules associated with the resources.

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MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*
- *of inventorship (Rule 4.17(iv))*

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INTERNATIONAL SEARCH REPORT

013/058530 20.05.2014
International application No.

PCT/US13/58530

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.: 5-6, 8-27, 32-33, 35-66, 70-105, 111-113, 115-148, 152-186, 190-221
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Group I: Claims 1-4, 7; Group II: Claims 28-31, 34, 67-69, 106-110, 114, 149-151, 187-189

-Please see Supplemental Page-

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

- Remark on Protest**
- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
 - The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
 - No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

13/030930 20.05.2014
International application No.

PCT/US13/58530

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G06F 21/62 (2014.01)

USPC - 709/229

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) Classification(s): G06F 21/00, 21/30, 21/60, 21/62 (2014.01)

USPC Classification(s): 709/225, 226, 229; 726/4, 7; 455/456.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

MicroPatent (US-G, US-A, EP-A, EP-B, WO, JP-bib, DE-C,B, DE-A, DE-T, DE-U, GB-A, FR-A); ProQuest; IEEE; Google/Google Scholar
Keywords: authorize, client, device, identifier, pair, group, resource, rule, access, associate, validate, application, code, parameter, link, computer, distribution, content

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ----- Y	US 2009/0061890 A1, (ANDREASSON, M. et al.), 05 March 2009; figure 2, paragraphs [0008], [0053], [0062], [0132].	28, 67, 106, 149, 151/149, 187-189 ----- 29-31, 34, 68-69, 107-110, 114, 150, 151/150
Y	WO 2012/098596 A1, (HIDEYUKI, S. et al.), 26 July 2012; figures 4, 5, 18, paragraphs [0014], [0015], [0021], [0028], [0032], [0034].	1-4, 7
Y	US 7,895,296 B1, (DAYAN, T.), 22 February 2011; column 6, lines 30-43, column 15, lines 45-50.	1-4, 7, 29-31, 34, 107-110, 114, 150, 151/150
Y	US 2009/0222880 A1, (MAYER, F. et al.), 03 September 2009; paragraph [0058].	4, 31
Y	US 2012/0150577 A1, (BERG, J. et al.), 14 June 2012; paragraphs [0012], [0035].	68-69

 Further documents are listed in the continuation of Box C.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search:

07 May 2014 (07.05.2014)

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-***-Continued from Box No. III - Observations where unity of invention is lacking-***-

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fee must be paid.

Group I: Claims 1-4 and 7 are directed toward a method of determining authorization of a pairing of a user and client device; and transmitting identified resources and identified distribution rules.

Group II: Claims 28-31, 34, 67-69, 106-110, 114, 149-151, and 187-189 are directed toward methods and systems for transmitting and receiving resources; and removing resources from a client device.

The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The special technical features of Group I include determining whether a pairing of a user of a client device and the client device is authorized to access a distribution service; identifying a plurality of resource grouping identifiers; and identifying and transmitting a plurality of distribution rules, which are not present in Group II.

The special technical features of Group II include determining whether the client device is located within one of a plurality of authorized locations; removing resources from the client device if the client device is no longer located within an authorized location; determining whether a current time associated with the client device is within one of a plurality of authorized time windows; and removing the resources from the client device if the current time associated with the client device is not within an authorized time window, which are not present in Group I.

The common technical feature shared by Groups I-II is a non-transitory computer-readable medium embodying a program executable in a computing device, the program comprising code that, when executed by a computing device, causes the computing device to perform a method comprising the steps of: receiving, from a client device, a request to access a plurality of resources hosted by a distribution service; determining whether the client device is authorized to access the distribution service; transmitting identified resources, the resources being configured to be exclusively accessible via a containerized client side application. However, this common feature is previously disclosed by US 2007/0050854 A1 (Cooperstein). Cooperstein discloses a non-transitory computer-readable medium embodying a program executable in a computing device (computing device includes data storage device, including flash memory or ROM which includes an operating system; paragraphs [0013]-[0014]), the program comprising code that, when executed by a computing device (program data for the computing device; paragraph [0012]), causes the computing device to perform a method comprising the steps of: receiving, from a client device, a request to access a plurality of resources hosted by a distribution service (client requests access to resource from a service connection operation; Figure 4, paragraphs [0042] and [0044]); determining whether the client device is authorized to access the distribution service (determine if client is authorized for resource access; Figure 4 and paragraph [0042]); transmitting identified resources (allow access to resource; Figure 4 and paragraph [0043]), the resources being configured to be exclusively accessible via a containerized client side application (resource is accessible by a client sandboxed application (containerized client side application); Figure 2, paragraphs [0015], [0027]).

Since the common technical feature is previously disclosed by the Cooperstein reference, this common feature is not special and so Groups I-II lack unity.