Abstract: A computer system arranged to determine whether a candidate media-component matches one or more reference media-components, wherein the computer system comprises: at least one processing device arranged to receive the candidate media-component and at the least one processing device further comprising: a window generator arranged to select a portion of the candidate media-component; a fingerprint generator arranged to generate a fingerprint from the portion of the candidate media-component selected by the window generator, wherein the at least one processing device is arranged to cause the window generator to move through the candidate media-component thereby selecting a plurality of portions of the candidate media component from at least some of which the fingerprint generator is arranged to generate a fingerprint thereby creating a sequence of candidate fingerprints; a comparator arranged to compare at least some of the candidate fingerprints within the sequence of candidate fingerprints against fingerprints within the sequences of reference fingerprints accessed from a store to determine if the store contains a sequence of reference fingerprints which matches the sequence of candidate fingerprints; the comparator being arranged to assess at least one characteristic of the comparison between the fingerprints within the sequence; wherein the system is arranged to determine that the candidate media-component matches a reference media-component should the at least one processing device determine that the candidate sequence of fingerprints matches a sequence of reference fingerprints.
Declarations under Rule 4.17:
— as to the identity of the inventor (Rule 4.17(i))
— as to applicant’s entitlement to apply for and be granted a patent (Rule 4.17(H))

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))

(88) Date of publication of the international search report: 16 July 2015
INTERNATIONAL SEARCH REPORT

International application No
PCT/GB2014/053329

A. CLASSIFICATION OF SUBJECT MATTER
INV. G06F17/30 G06F21/10
ADD.

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)
G06F

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)
EPO-Internal , WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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Further documents are listed in the continuation of Box C.  See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"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)

"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

"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

"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

"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

"Z" document member of the same patent family

Date of the actual completion of the international search: 27 February 2015

Date of mailing of the international search report: 29/05/2015

Name and mailing address of the ISA/
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016

Authorized officer
Skomorowski, Markus
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### INTERNATIONAL SEARCH REPORT

**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.:
   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:

see additional sheet

1. □ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable aims.

2. □ As all searchable claims could be searched without effort justifying an 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.:

   1–39

**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.

Form PCT/ISA/21 0 (continuation of first sheet (2)) (April 2005)
This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-39

   concern the technical problem to determine whether a media-component matches a reference media-component from a store by generating a fingerprint and comparing to stored fingerprints

2. claims: 40-48

   concern the technical problem of capturing streamed media content by re-transmitting and inspecting the stream

3. claims: 49-56, 58, 59

   concern the technical problem to identify media content by collecting meta-data to obtain a transmission schedule for the media-component

4. claim: 57

   concerns the technical problem to deliver an improved version of media file identified and retrieved via fingerprints and looking them up in a reference store

5. claims: 60-102

   concern the technical problem to identify the user respectively the source device of media-component using watermarking
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