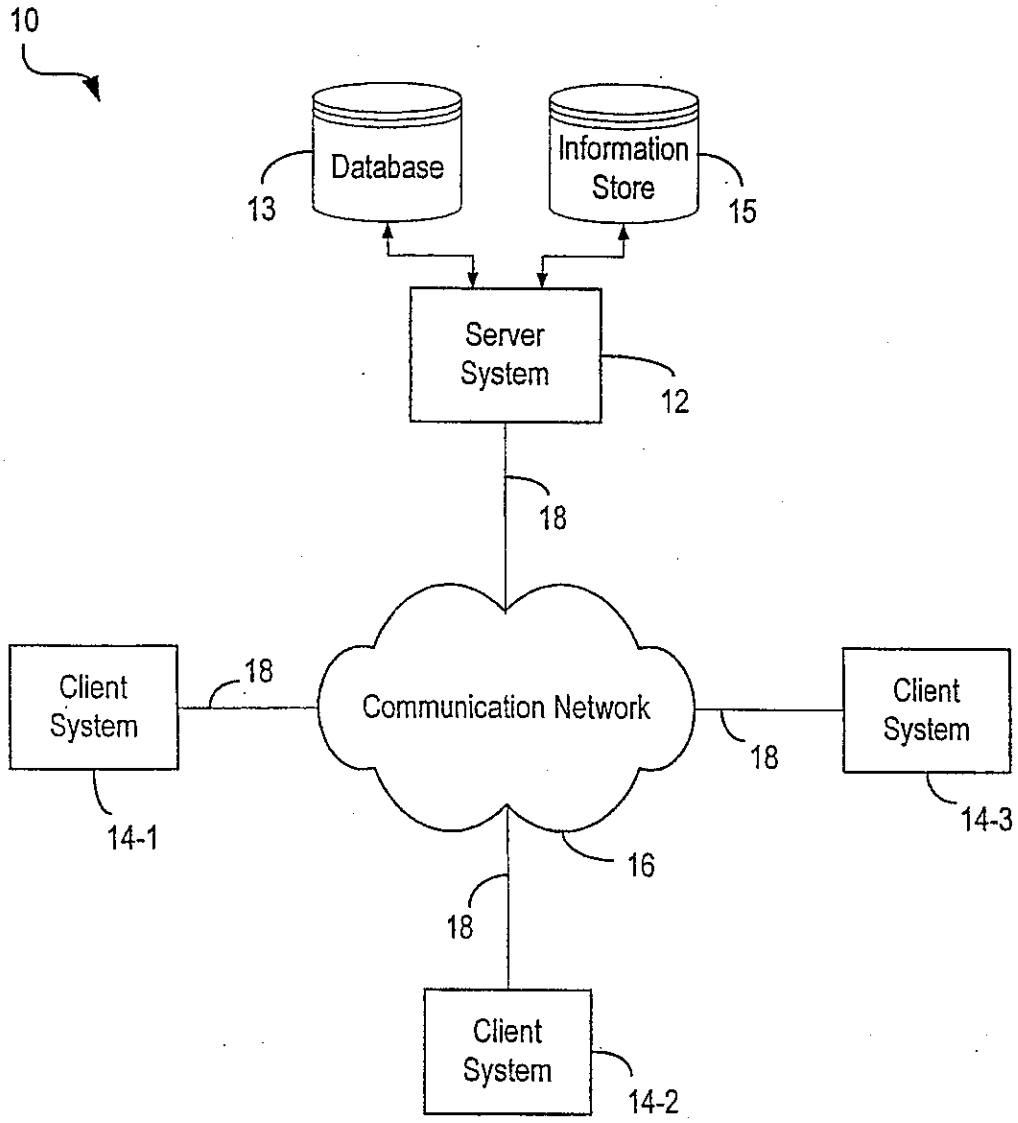

10
Database
13
Information Store
15
Server System
12
18
Client System
18
Communication Network
18
Client System
14-1
16
14-3
18
Client System
14-2

Fig. 1

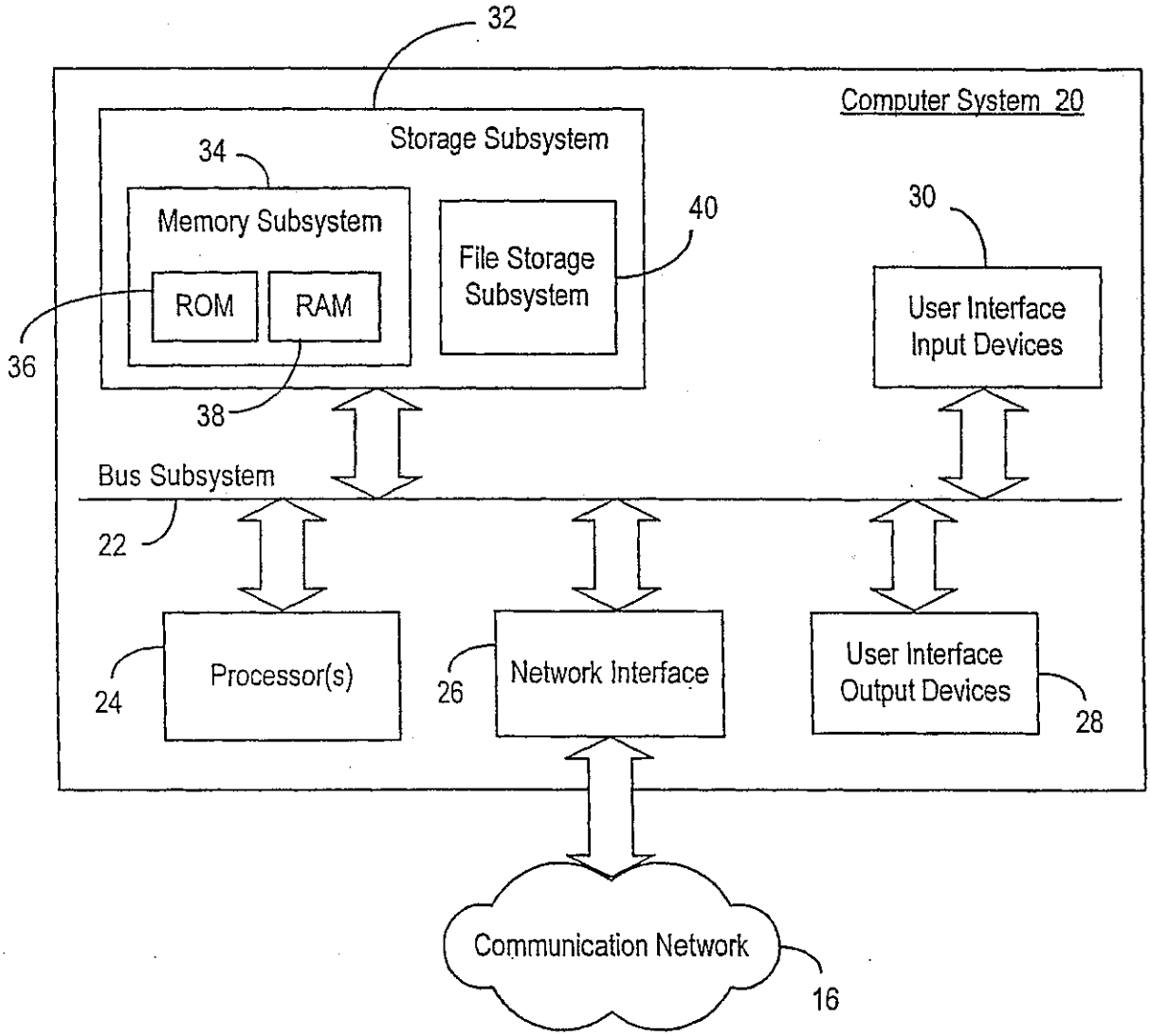

32
Computer System 20
Storage Subsystem
34
Memory Subsystem
ROM
RAM
36
38
File Storage Subsystem
40
30
User Interface Input Devices
Bus Subsystem
22
Processor(s)
24
Network Interface
26
User Interface Output Devices
28
Communication Network
16

Fig. 2

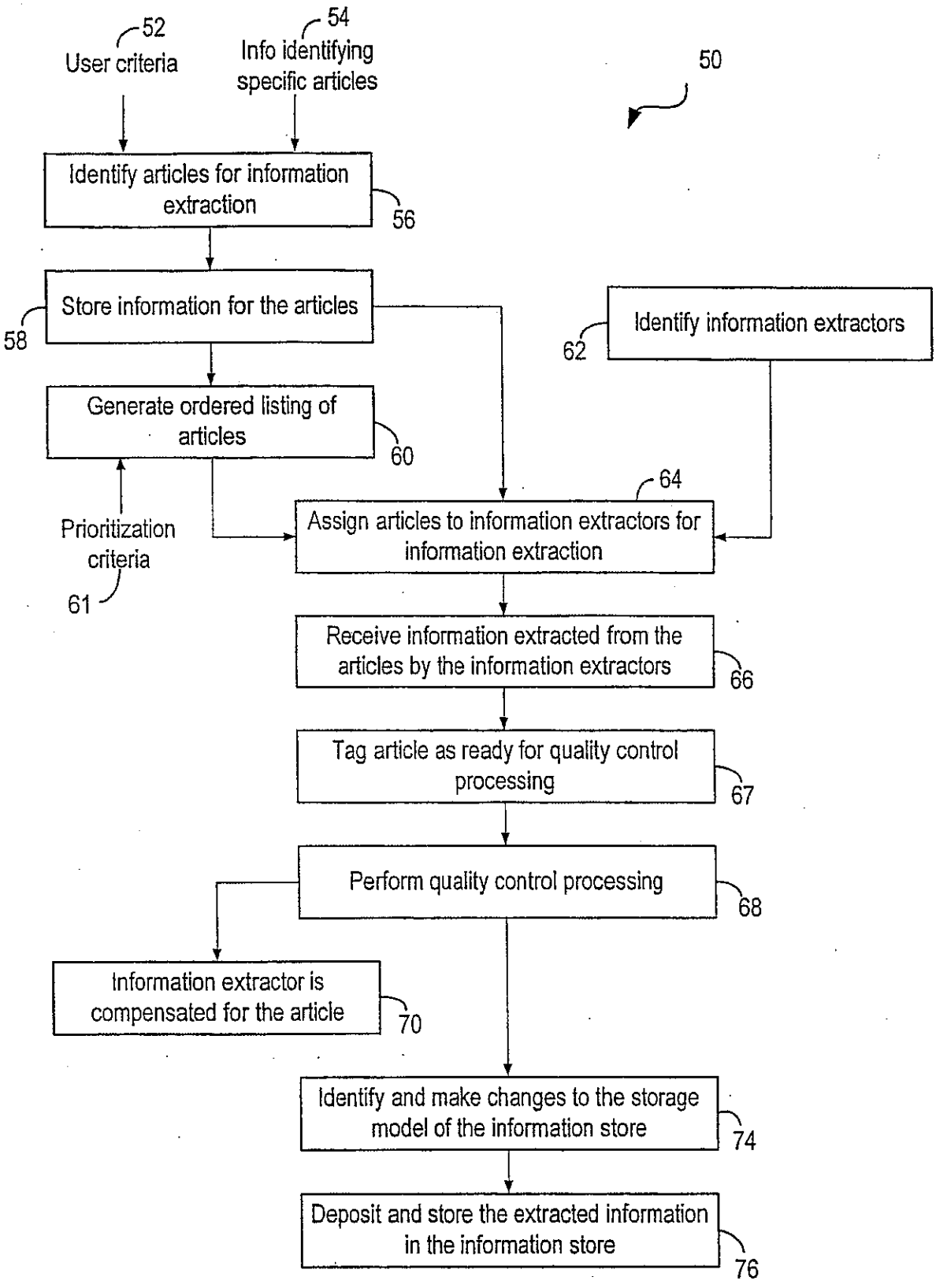

52
User criteria
54
Info identifying specific articles
50
Identify articles for information extraction
56
Store information for the articles
58
Identify information extractors
62
Generate ordered listing of articles
60
64
Prioritization criteria
61
Assign articles to information extractors for information extraction
Receive information extracted from the articles by the information extractors
66
Tag article as ready for quality control processing
67
Perform quality control processing
68
Information extractor is compensated for the article
70
Identify and make changes to the storage model of the information store
74
Deposit and store the extracted information in the information store
76

Fig. 3

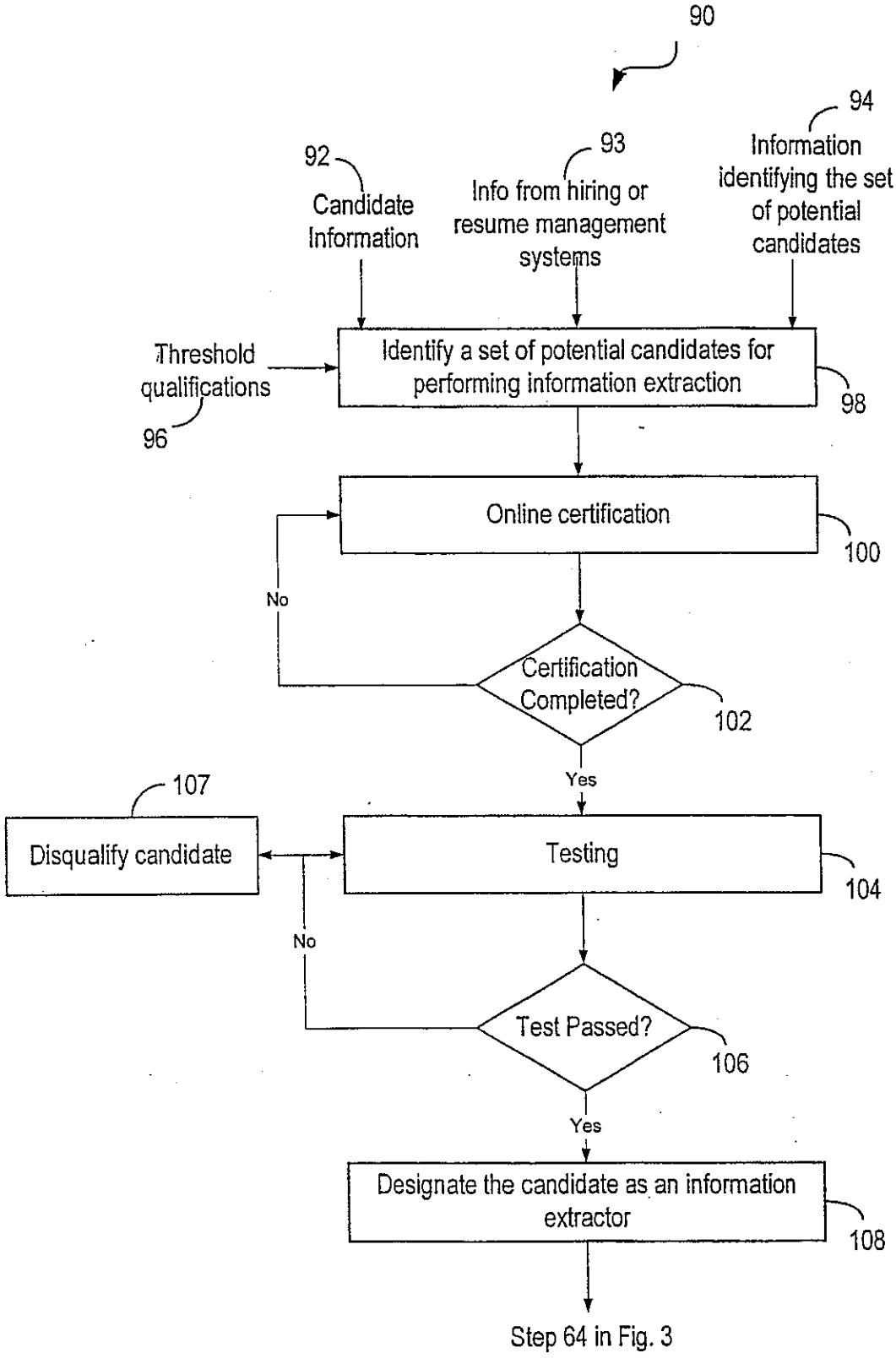

90
92
Candidate Information
93
Info from hiring or resume management systems
94
Information identifying the set of potential candidates
Threshold qualifications
96
Identify a set of potential candidates for performing information extraction
98
Online certification
100
No
Certification Completed?
102
Yes
107
Disqualify candidate
Testing
104
No
Test Passed?
106
Yes
Designate the candidate as an information extractor
108
Step 64 in Fig. 3

Fig. 4

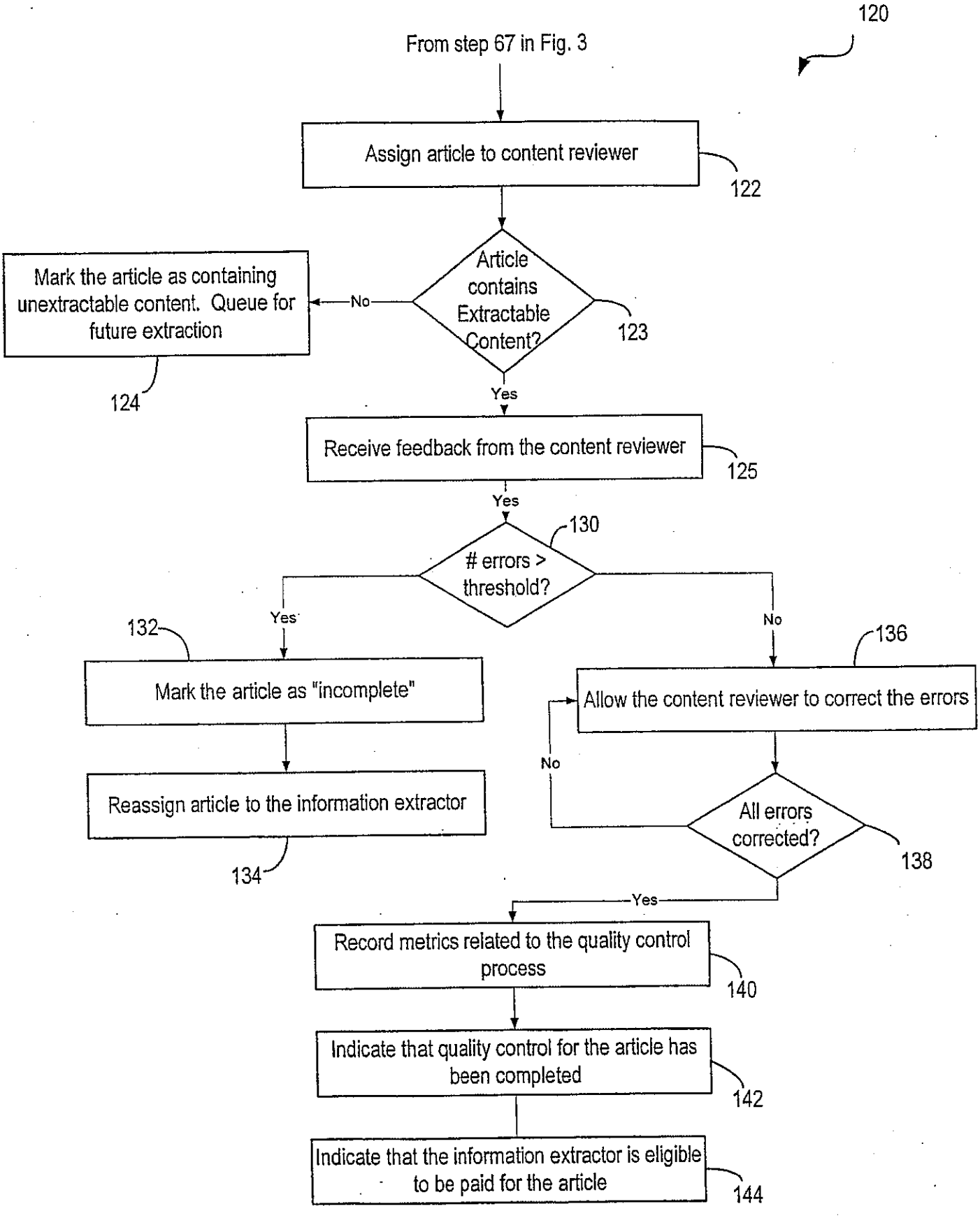

120
From step 67 in Fig. 3
Assign article to content reviewer
122
Article contains Extractable Content?
123
No
Mark the article as containing unextractable content. Queue for future extraction
124
Yes
Receive feedback from the content reviewer
125
Yes
130
errors > threshold?
Yes
No
132
Mark the article as "incomplete"
Reassign article to the information extractor
134
136
Allow the content reviewer to correct the errors
No
All errors corrected?
138
Yes
Record metrics related to the quality control process
140
Indicate that quality control for the article has been completed
142
Indicate that the information extractor is eligible to be paid for the article
144

Fig. 5

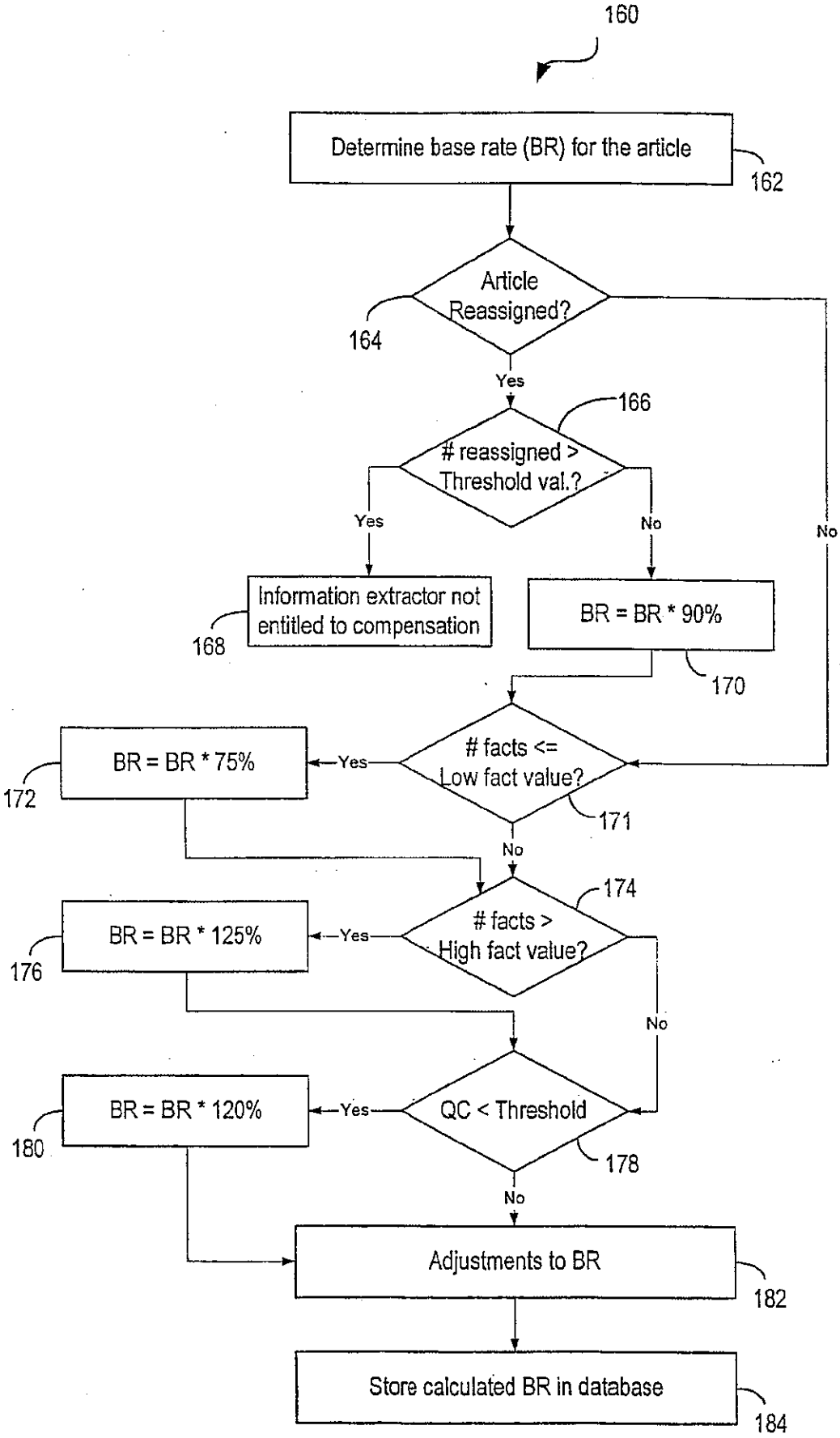

160
Determine base rate (BR) for the article
162
Article Reassigned?
164
Yes
No
166
reassigned > Threshold val.?
Yes
No
Information extractor not entitled to compensation
168
BR = BR * 90%
170
facts <= Low fact value?
Yes
BR = BR * 75%
172
171
No
174
facts > High fact value?
Yes
BR = BR * 125%
176
No
QC < Threshold
Yes
BR = BR * 120%
180
178
No
Adjustments to BR
182
Store calculated BR in database
184

Fig. 6

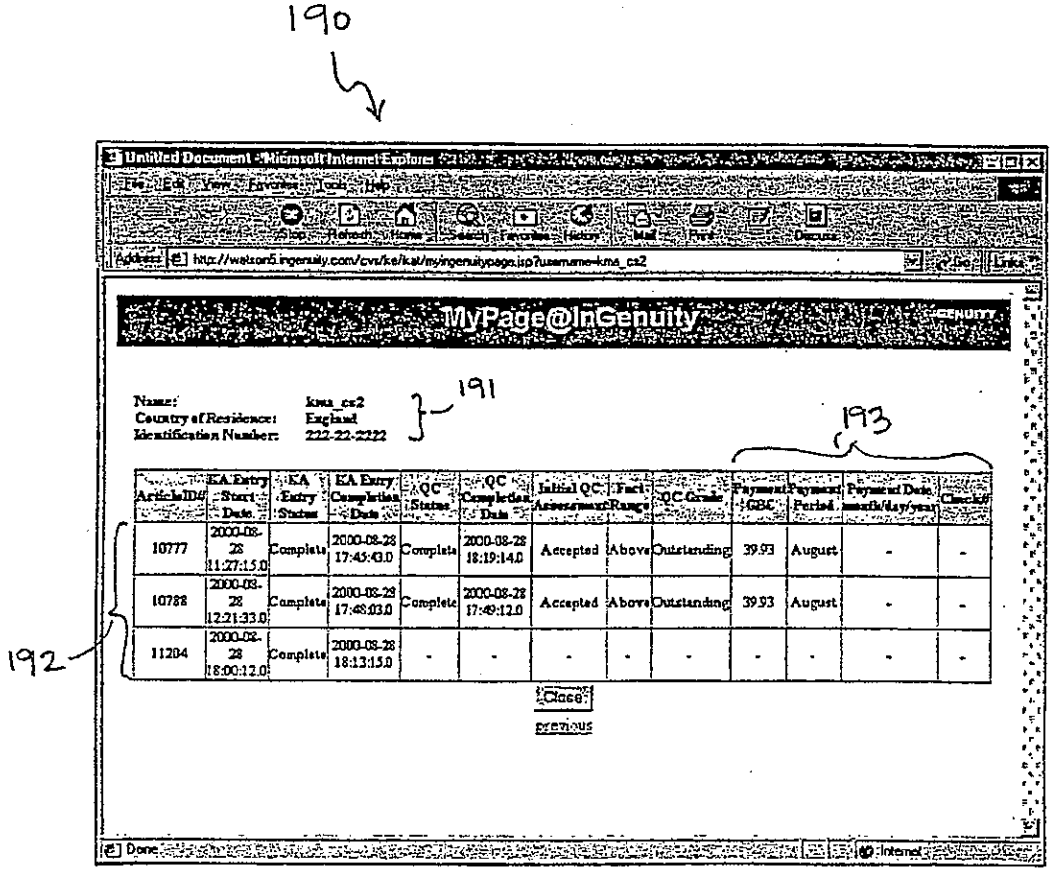

190
Untitled Document - Microsoft Internet Explorer
http://watson5.ingenuity.com/cvs/ke/kat/myingenuitypage.jsp?username=kma_cs2
MyPage@InGenuity
Name: kma_cs2
Country of Residence: England
Identification Number: 222-22-2222
191
193
192
Article ID
EA Entry Start Date
EA Entry Status
EA Entry Completion Date
QC Status
QC Completion Date
Initial QC Assessment
Fact Range
QC Grade
Payment GBC
Payment Period
Payment Date month/day/year
Check
10777 2000-08-28 11:27:15.0 Complete 2000-08-28 17:45:43.0 Complete 2000-08-28 18:19:14.0 Accepted Above Outstanding 39.93 August -
10788 2000-08-28 12:21:33.0 Complete 2000-08-28 17:48:03.0 Complete 2000-08-28 17:49:12.0 Accepted Above Outstanding 39.93 August -
11204 2000-02-28 18:00:12.0 Complete 2000-08-28 18:13:15.0 - - - - - - - - -
Close
previous
Done
Internet

Fig. 7

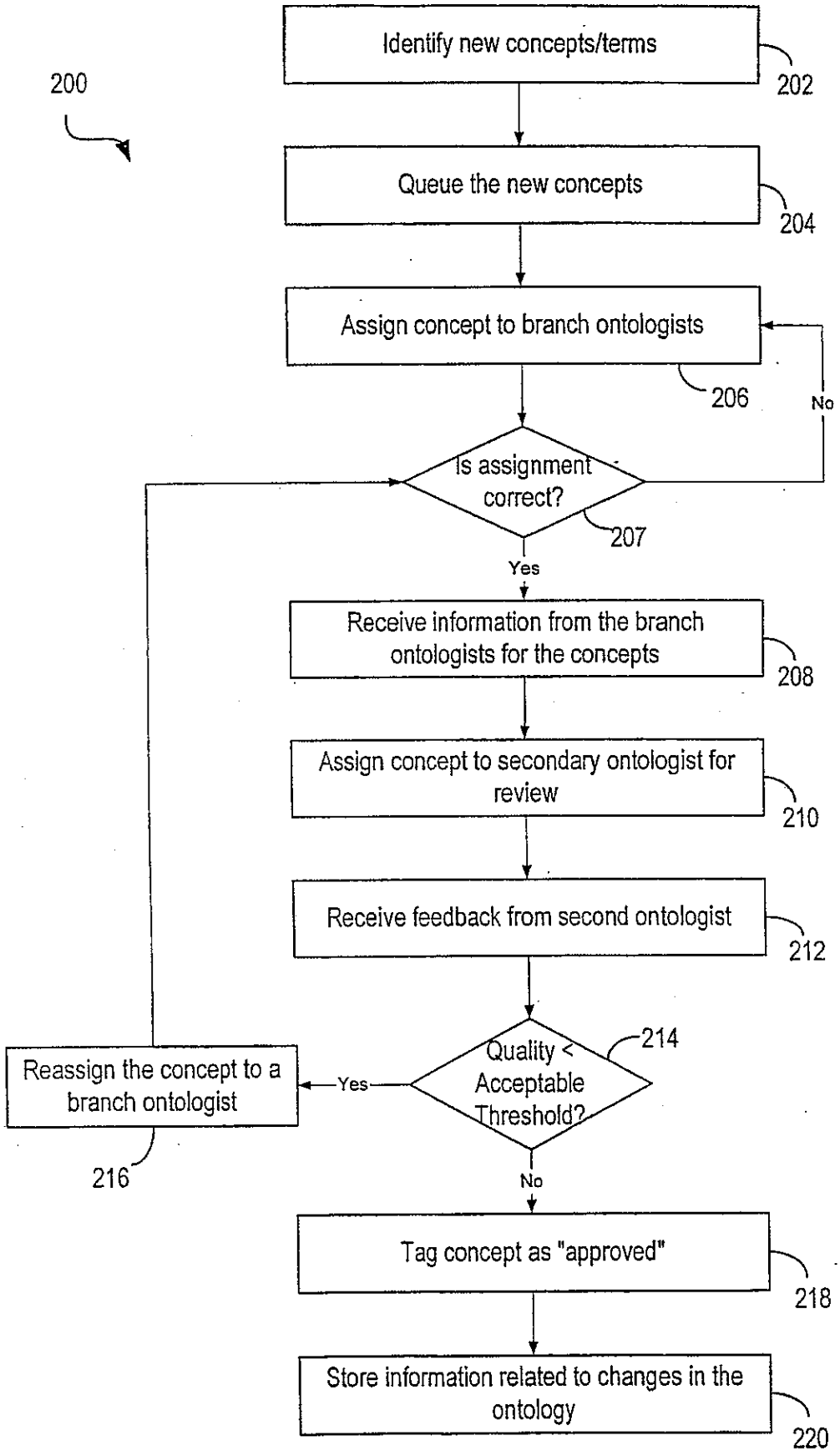

200
Identify new concepts/terms
202
Queue the new concepts
204
Assign concept to branch ontologists
206
No
Is assignment correct?
207
Yes
Receive information from the branch ontologists for the concepts
208
Assign concept to secondary ontologist for review
210
Receive feedback from second ontologist
212
Quality < Acceptable Threshold?
214
Yes
Reassign the concept to a branch ontologist
216
No
Tag concept as "approved"
218
Store information related to changes in the ontology
220

Fig. 8

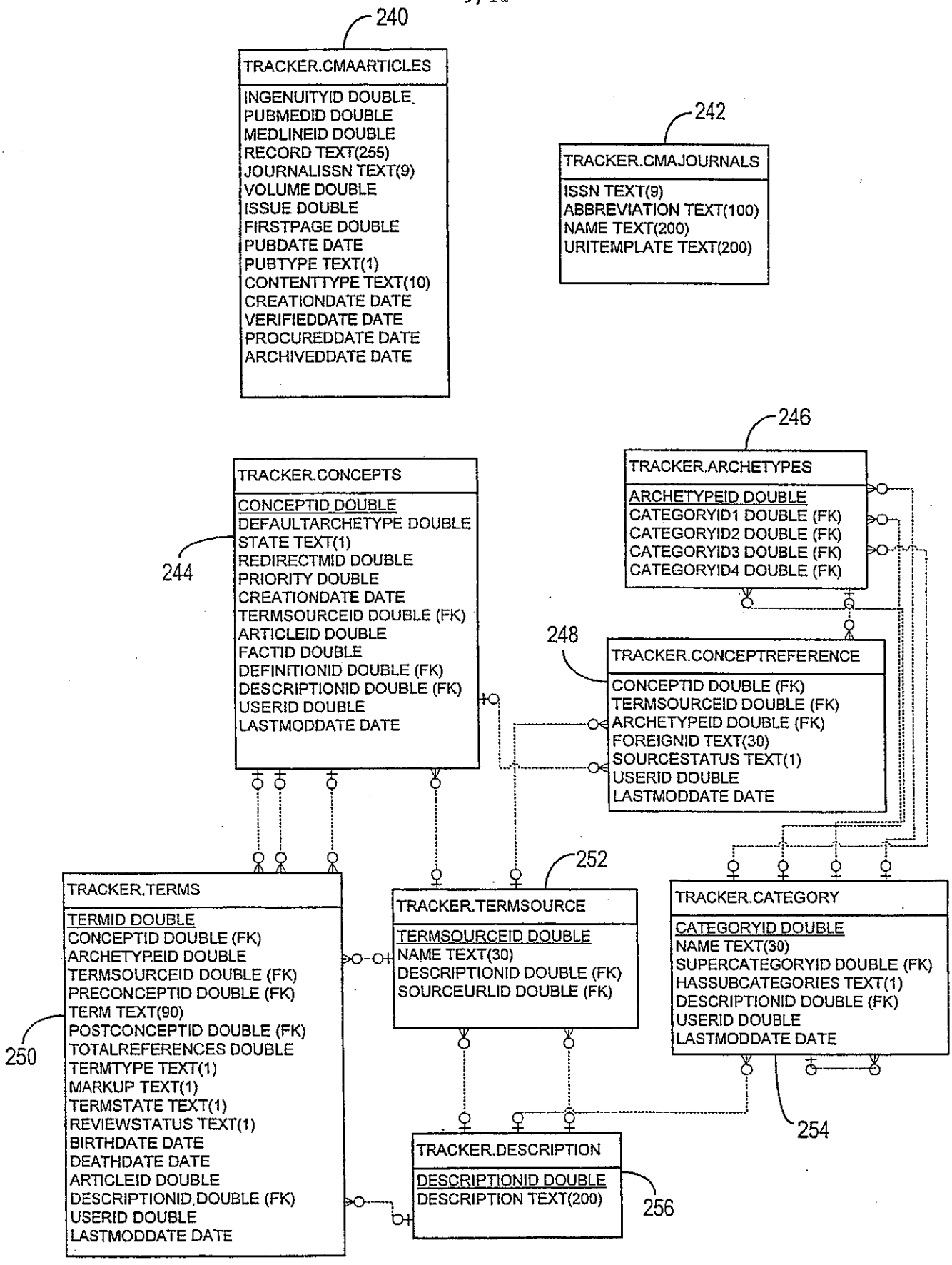

240
TRACKER.CMAARTICLES
INGENUITYID DOUBLE
PUBMEDID DOUBLE
MEDLINEID DOUBLE
RECORD TEXT(255)
JOURNALISSN TEXT(9)
VOLUME DOUBLE
ISSUE DOUBLE
FIRSTPAGE DOUBLE
PUBDATE DATE
PUBTYPE TEXT(1)
CONTENTTYPE TEXT(10)
CREATIONDATE DATE
VERIFIEDDATE DATE
PROCUREDDATE DATE
ARCHIVEDDATE DATE
242
TRACKER.CMAJOURNALS
ISSN TEXT(9)
ABBREVIATION TEXT(100)
NAME TEXT(200)
URITEMPLATE TEXT(200)
246
TRACKER.ARCHETYPES
ARCHETYPEID DOUBLE
CATEGORYID1 DOUBLE (FK)
CATEGORYID2 DOUBLE (FK)
CATEGORYID3 DOUBLE (FK)
CATEGORYID4 DOUBLE (FK)
TRACKER.CONCEPTS
CONCEPTID DOUBLE
DEFAULTARCHETYPE DOUBLE
STATE TEXT(1)
REDIRECTMID DOUBLE
PRIORITY DOUBLE
CREATIONDATE DATE
TERMSOURCEID DOUBLE (FK)
ARTICLEID DOUBLE
FACTID DOUBLE
DEFINITIONID DOUBLE (FK)
DESCRIPTIONID DOUBLE (FK)
USERID DOUBLE
LASTMODDATE DATE
244
248
TRACKER.CONCEPTREFERENCE
CONCEPTID DOUBLE (FK)
TERMSOURCEID DOUBLE (FK)
ARCHETYPEID DOUBLE (FK)
FOREIGNID TEXT(30)
SOURCESTATUS TEXT(1)
USERID DOUBLE
LASTMODDATE DATE
252
TRACKER.TERMS
TERMID DOUBLE
CONCEPTID DOUBLE (FK)
ARCHETYPEID DOUBLE
TERMSOURCEID DOUBLE (FK)
PRECONCEPTID DOUBLE (FK)
TERM TEXT(90)
POSTCONCEPTID DOUBLE (FK)
TOTALREFERENCES DOUBLE
TERMTYPE TEXT(1)
MARKUP TEXT(1)
TERMSTATE TEXT(1)
REVIEWSTATUS TEXT(1)
BIRTHDATE DATE
DEATHDATE DATE
ARTICLEID DOUBLE
DESCRIPTIONID,DOUBLE (FK)
USERID DOUBLE
LASTMODDATE DATE
250
TRACKER.TERMSOURCE
TERMSOURCEID DOUBLE
NAME TEXT(30)
DESCRIPTIONID DOUBLE (FK)
SOURCEURLID DOUBLE (FK)
TRACKER.CATEGORY
CATEGORYID DOUBLE
NAME TEXT(30)
SUPERCATEGORYID DOUBLE (FK)
HASSUBCATEGORIES TEXT(1)
DESCRIPTIONID DOUBLE (FK)
USERID DOUBLE
LASTMODDATE DATE
254
TRACKER.DESCRIPTION
DESCRIPTIONID DOUBLE
DESCRIPTION TEXT(200)
256

Fig. 9A

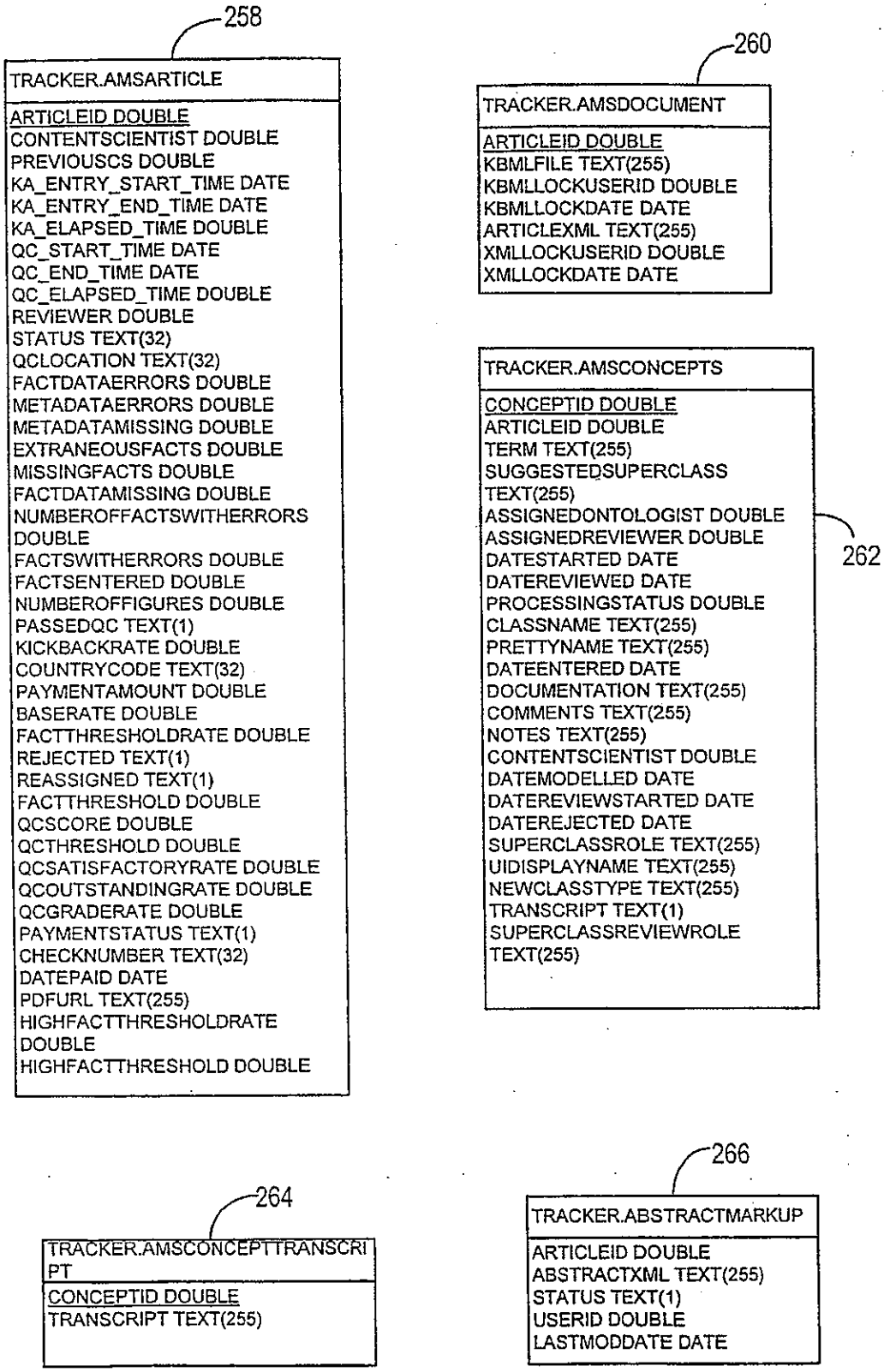

258
TRACKER.AMSARTICLE
ARTICLEID DOUBLE
CONTENTSCIENTIST DOUBLE
PREVIOUSCS DOUBLE
KA_ENTRY_START_TIME DATE
KA_ENTRY_END_TIME DATE
KA_ELAPSED_TIME DOUBLE
QC_START_TIME DATE
QC_END_TIME DATE
QC_ELAPSED_TIME DOUBLE
REVIEWER DOUBLE
STATUS TEXT(32)
QCLOCATION TEXT(32)
FACTDATAERRORS DOUBLE
METADATAERRORS DOUBLE
METADATAMISSING DOUBLE
EXTRANEOUSFACTS DOUBLE
MISSINGFACTS DOUBLE
FACTDATAMISSING DOUBLE
NUMBEROFFACTSWITHERRORS DOUBLE
FACTSWITHERRORS DOUBLE
FACTSENTERED DOUBLE
NUMBEROFFIGURES DOUBLE
PASSEDQC TEXT(1)
KICKBACKRATE DOUBLE
COUNTRYCODE TEXT(32)
PAYMENTAMOUNT DOUBLE
BASERATE DOUBLE
FACTTHRESHOLDRATE DOUBLE
REJECTED TEXT(1)
REASSIGNED TEXT(1)
FACTTHRESHOLD DOUBLE
QCSCORE DOUBLE
QCTHRESHOLD DOUBLE
QCSATISFACTORYRATE DOUBLE
QCOUTSTANDINGRATE DOUBLE
QCGRADERATE DOUBLE
PAYMENTSTATUS TEXT(1)
CHECKNUMBER TEXT(32)
DATEPAID DATE
PDFURL TEXT(255)
HIGHFACTTHRESHOLDRATE DOUBLE
HIGHFACTTHRESHOLD DOUBLE
260
TRACKER.AMSDOCUMENT
ARTICLEID DOUBLE
KBMLFILE TEXT(255)
KBMLLOCKUSERID DOUBLE
KBMLLOCKDATE DATE
ARTICLEXML TEXT(255)
XMLLOCKUSERID DOUBLE
XMLLOCKDATE DATE
TRACKER.AMSCONCEPTS
CONCEPTID DOUBLE
ARTICLEID DOUBLE
TERM TEXT(255)
SUGGESTEDSUPERCLASS TEXT(255)
ASSIGNEDONTOLOGIST DOUBLE
ASSIGNEDREVIEWER DOUBLE
DATESTARTED DATE
DATEREVIEWED DATE
PROCESSINGSTATUS DOUBLE
CLASSNAME TEXT(255)
PRETTYNAME TEXT(255)
DATEENTERED DATE
DOCUMENTATION TEXT(255)
COMMENTS TEXT(255)
NOTES TEXT(255)
CONTENTSCIENTIST DOUBLE
DATEMODELLED DATE
DATEREVIEWSTARTED DATE
DATEREJECTED DATE
SUPERCLASSROLE TEXT(255)
UIDISPLAYNAME TEXT(255)
NEWCLASSTYPE TEXT(255)
TRANSCRIPT TEXT(1)
SUPERCLASSREVIEWROLE TEXT(255)
262
264
TRACKER.AMSCONCEPTTRANSCRIPT
CONCEPTID DOUBLE
TRANSCRIPT TEXT(255)
266
TRACKER.ABSTRACTMARKUP
ARTICLEID DOUBLE
ABSTRACTXML TEXT(255)
STATUS TEXT(1)
USERID DOUBLE
LASTMODDATE DATE

Fig. 9B

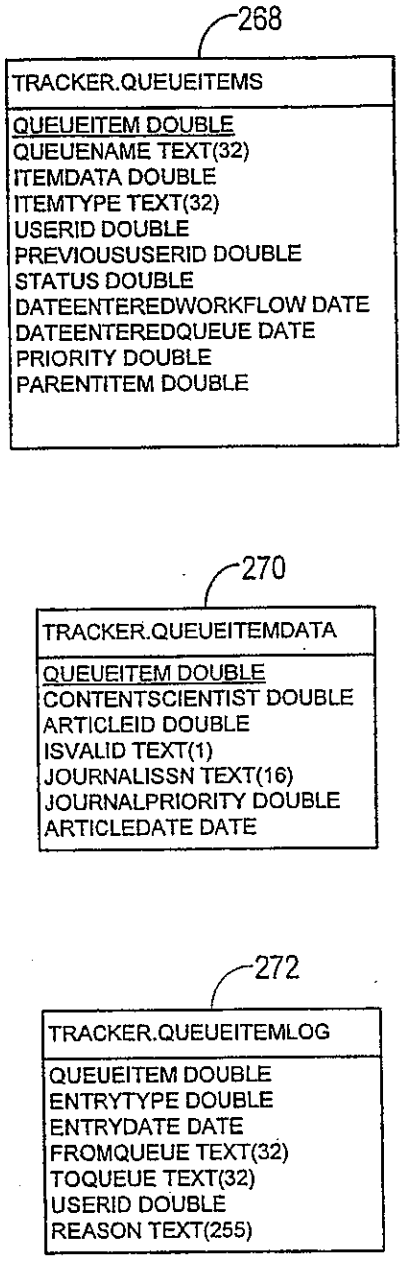

268
TRACKER.QUEUEITEMS
QUEUEITEM DOUBLE
QUEUENAME TEXT(32)
ITEMDATA DOUBLE
ITEMTYPE TEXT(32)
USERID DOUBLE
PREVIOUSUSERID DOUBLE
STATUS DOUBLE
DATEENTEREDWORKFLOW DATE
DATEENTEREDQUEUE DATE
PRIORITY DOUBLE
PARENTITEM DOUBLE
270
TRACKER.QUEUEITEMDATA
QUEUEITEM DOUBLE
CONTENTSCIENTIST DOUBLE
ARTICLEID DOUBLE
ISVALID TEXT(1)
JOURNALISSN TEXT(16)
JOURNALPRIORITY DOUBLE
ARTICLEDATE DATE
272
TRACKER.QUEUEITEMLOG
QUEUEITEM DOUBLE
ENTRYTYPE DOUBLE
ENTRYDATE DATE
FROMQUEUE TEXT(32)
TOQUEUE TEXT(32)
USERID DOUBLE
REASON TEXT(255)

Fig. 9C