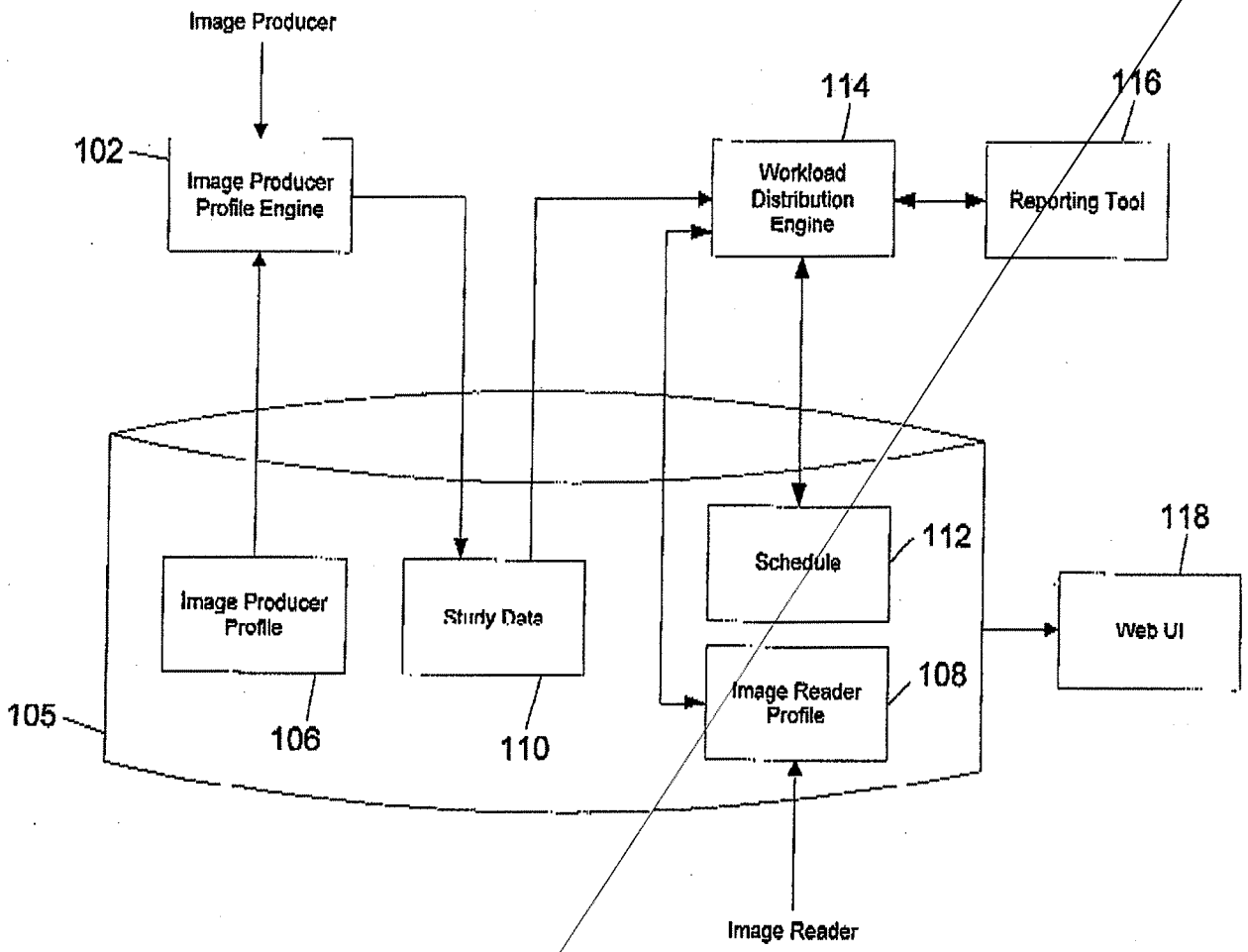

Image Producer
102
Image Producer Profile Engine
114
Workload Distribution Engine
116
Reporting Tool
Schedule
112
118
Web UI
Image Producer Profile
Sturdy Data
Image Reader Profile
108
105
106
110
Image Reader

Figure 1A

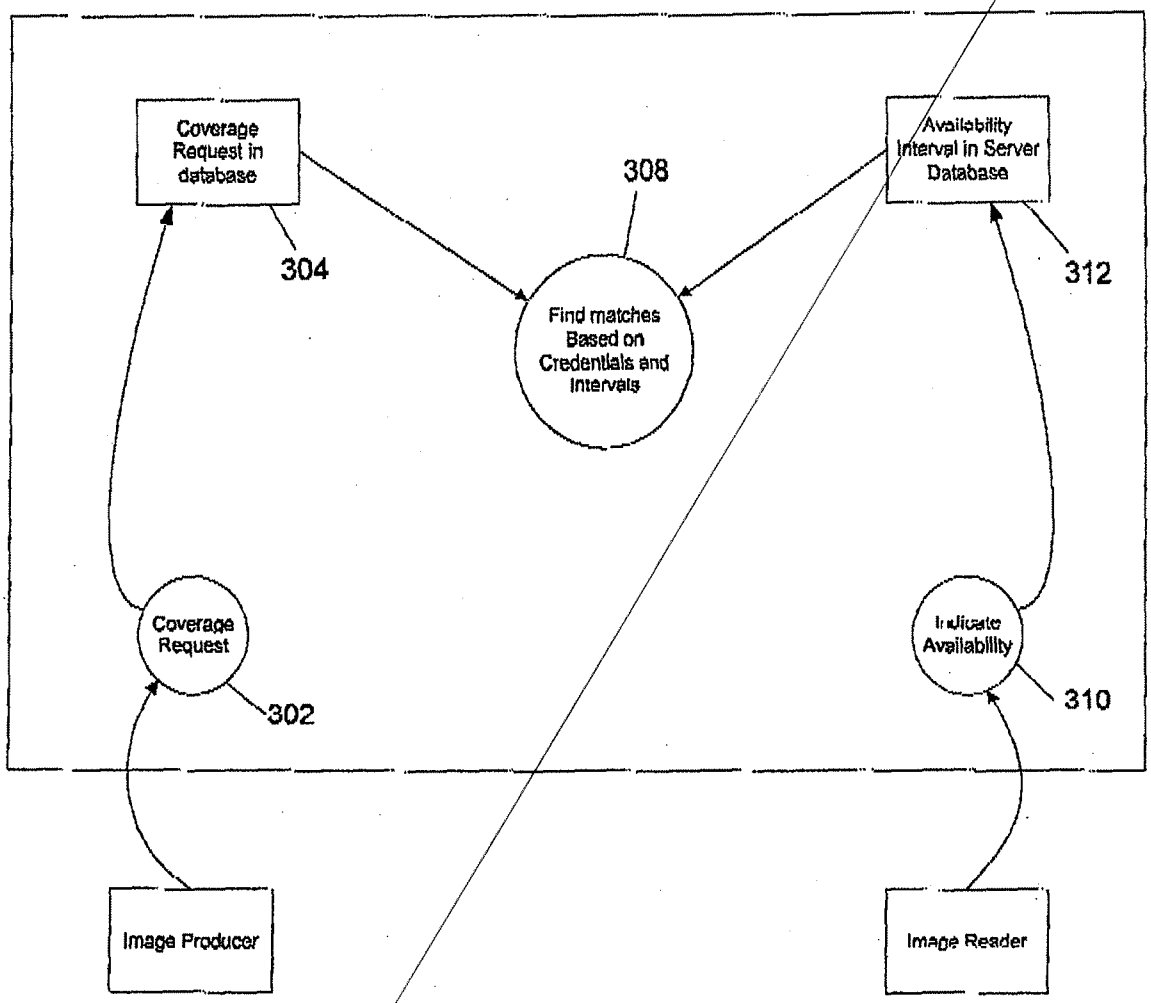

Coverage Request in database
304
308
Availability Interval in Server Database
312
Find matches Based on Credentials and Intervals
Coverage Request
302
Indicate Availability
310
Image Producer
Image Reader

Figure 3

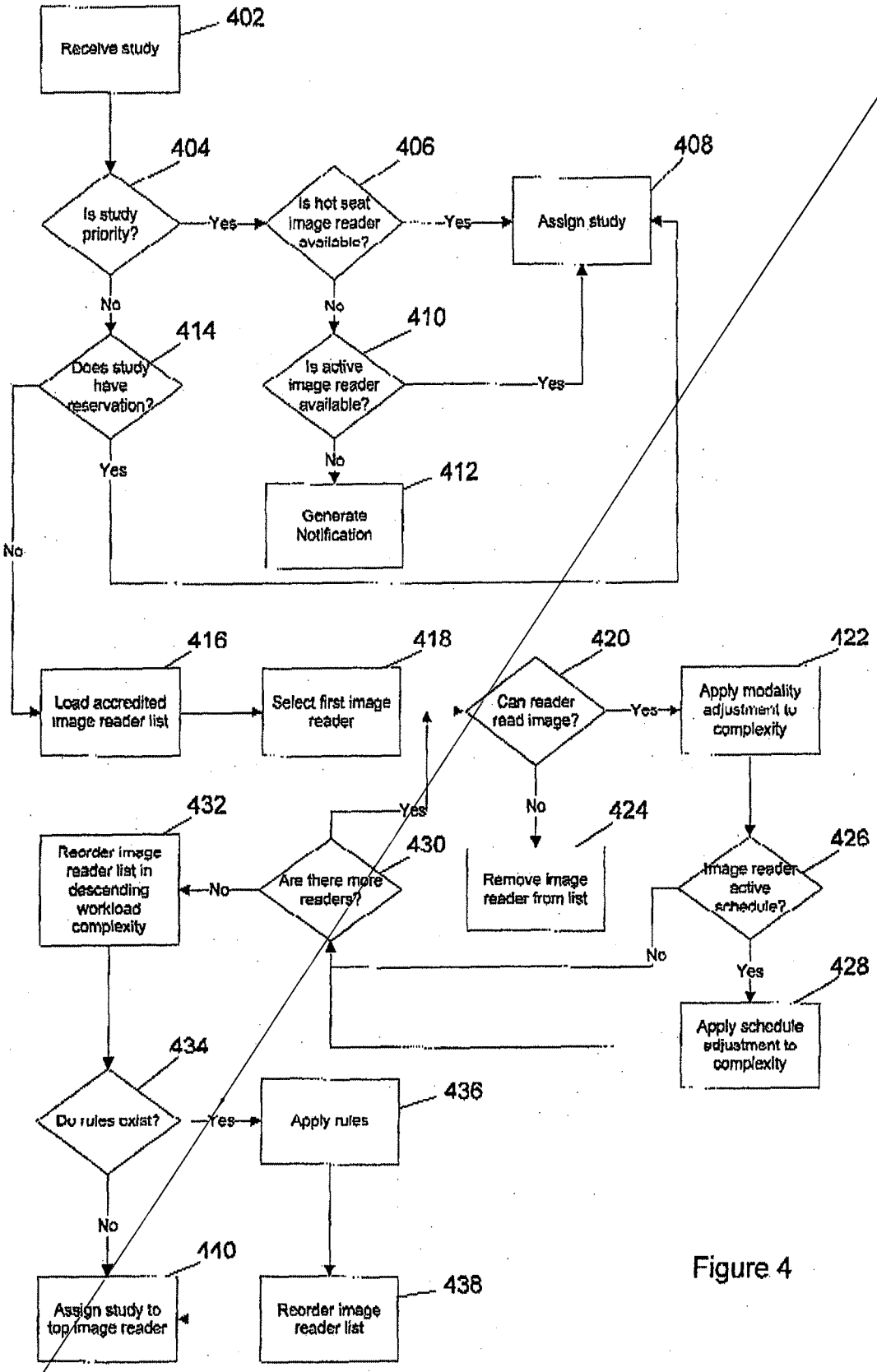

Receive study
402
Is study priority?
404
Yes
Is hot seat image reader available?
406
Yes
Assign study
408
No
No
Does study have reservation?
414
Is active image reader available?
410
Yes
Yes
No
Generate Notification
412
No
Load accredited image reader list
416
Select first image reader
418
Can reader read image?
420
Yes
Apply modality adjustment to complexity
422
No
Remove image reader from list
424
Yes
Are there more readers?
430
No
Reorder image reader list in descending workload complexity
432
Image reader active schedule?
426
No
Yes
Apply schedule adjustment to complexity
428
Do rules exist?
434
Yes
Apply rules
436
No
Assign study to top image reader
440
Reorder image reader list
438

Figure 4

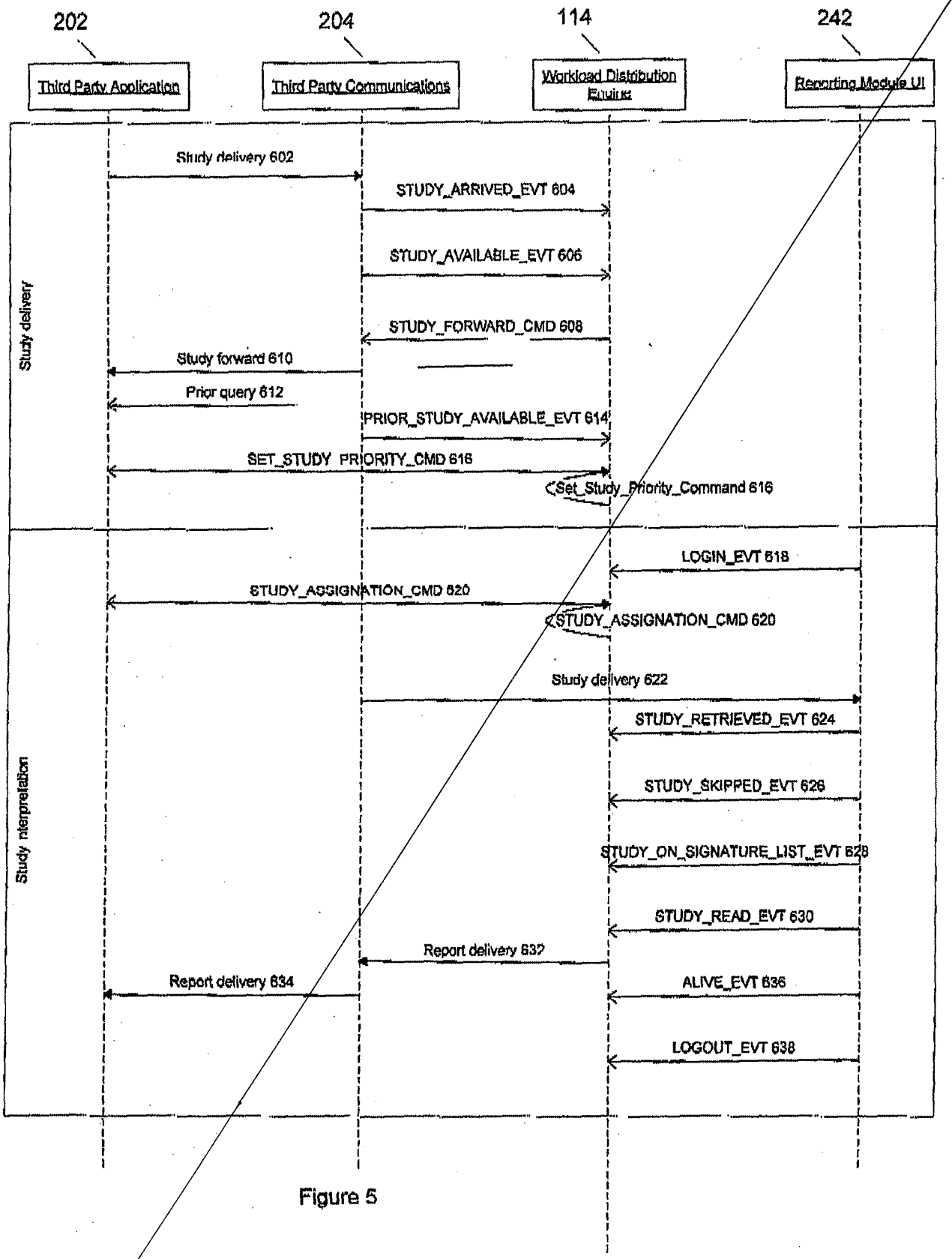

202
204
114
242
Third Party Application
Third Party Communications
Workload Distribution Engine
Reporting Module UI
Study delivery
Study delivery 602
STUDY_ARRIVED_EVT 604
STUDY_AVAILABLE_EVT 606
STUDY_FORWARD_CMD 608
Study forward 610
Prior query 612
PRIOR_STUDY_AVAILABLE_EVT 614
SET_STUDY_PRIORITY_CMD 616
Set_Study_Priority_Command 616
Study interpretation
LOGIN_EVT 618
STUDY_ASSIGNATION_CMD 620
STUDY_ASSIGNATION_CMD 620
Study delivery 622
STUDY_RETRIEVED_EVT 624
STUDY_SKIPPED_EVT 626
STUDY_ON_SIGNATURE_LIST_EVT 628
STUDY_READ_EVT 630
Report delivery 632
Report delivery 634
ALIVE_EVT 636
LOGOUT_EVT 638

Figure 5

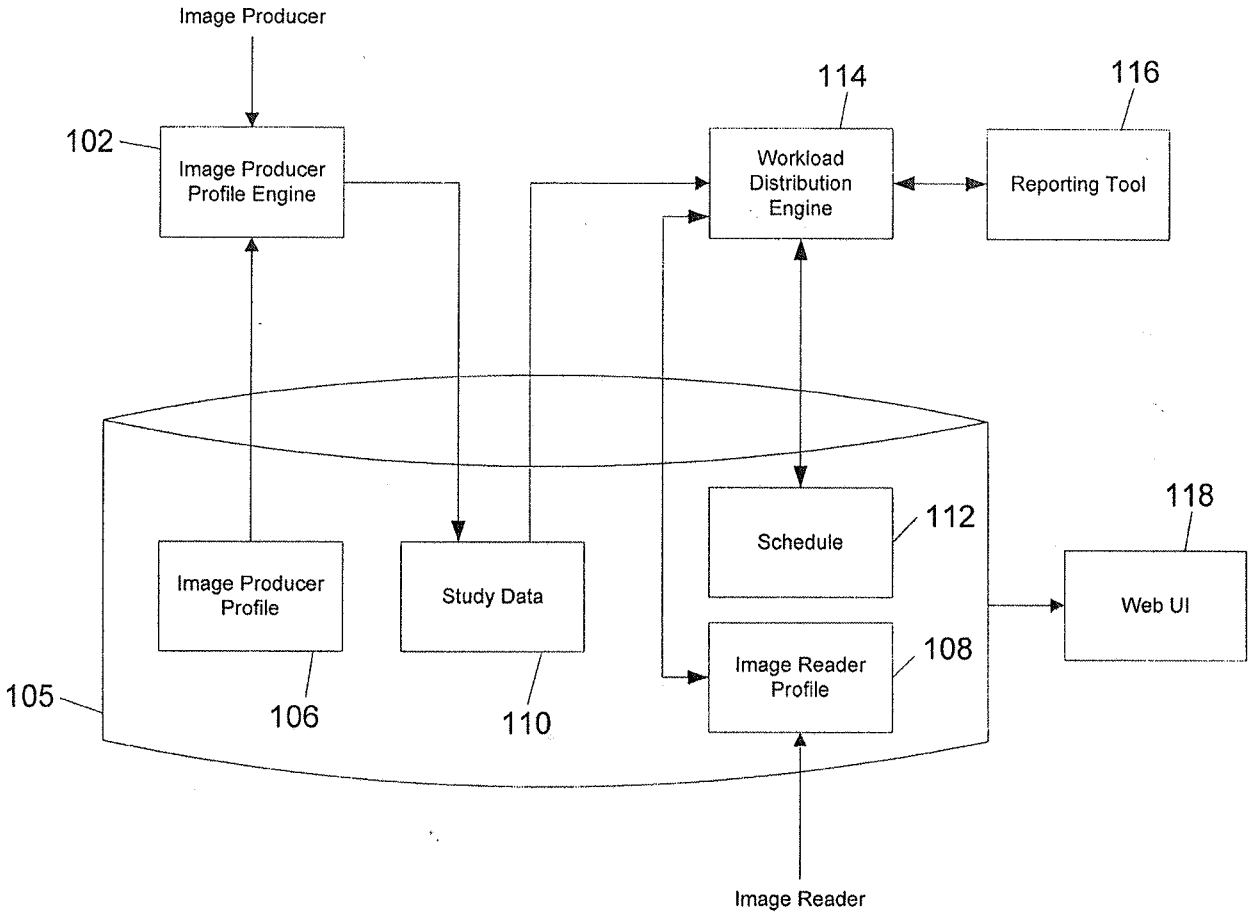


Figure 1A

100

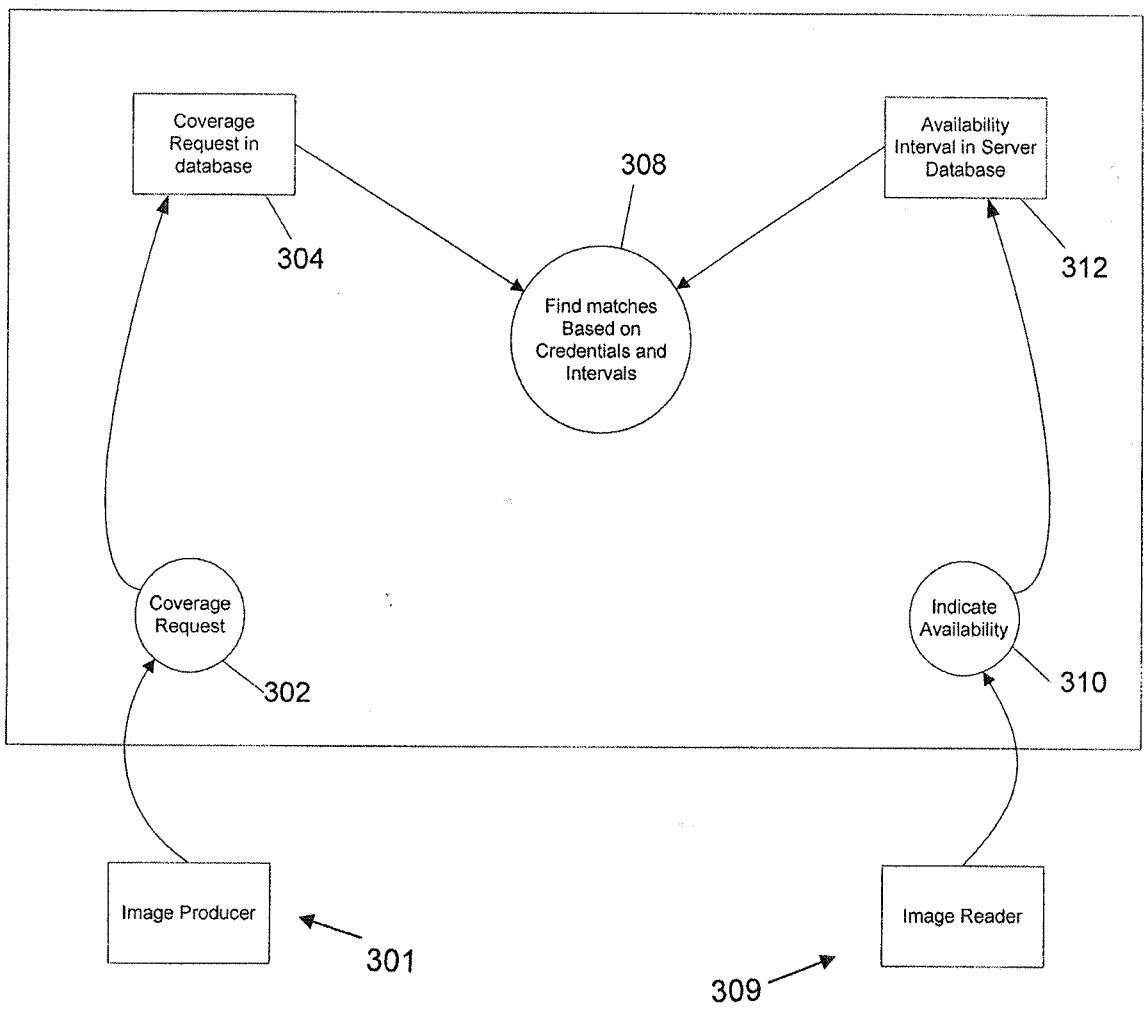

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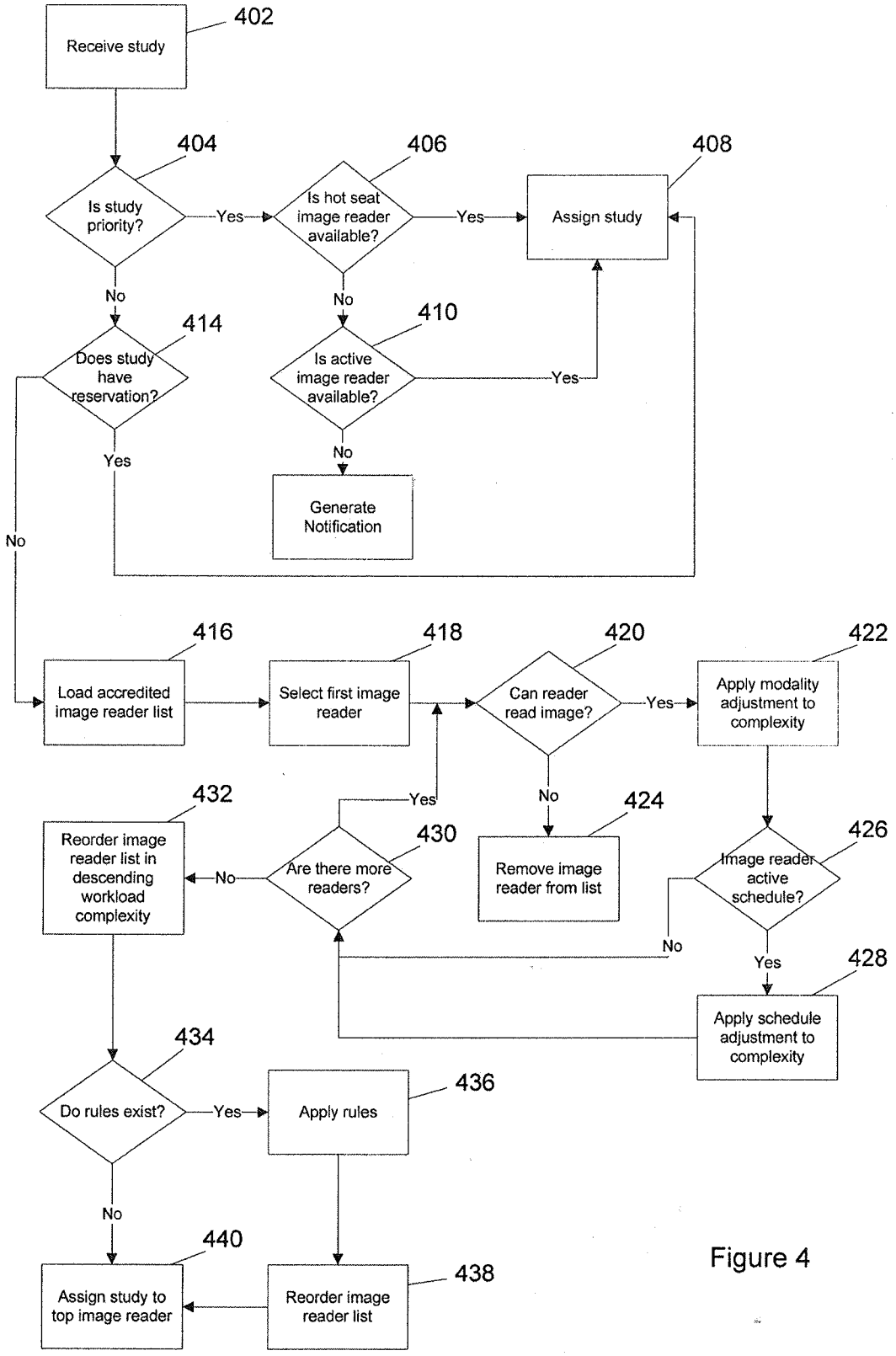

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Figure 4

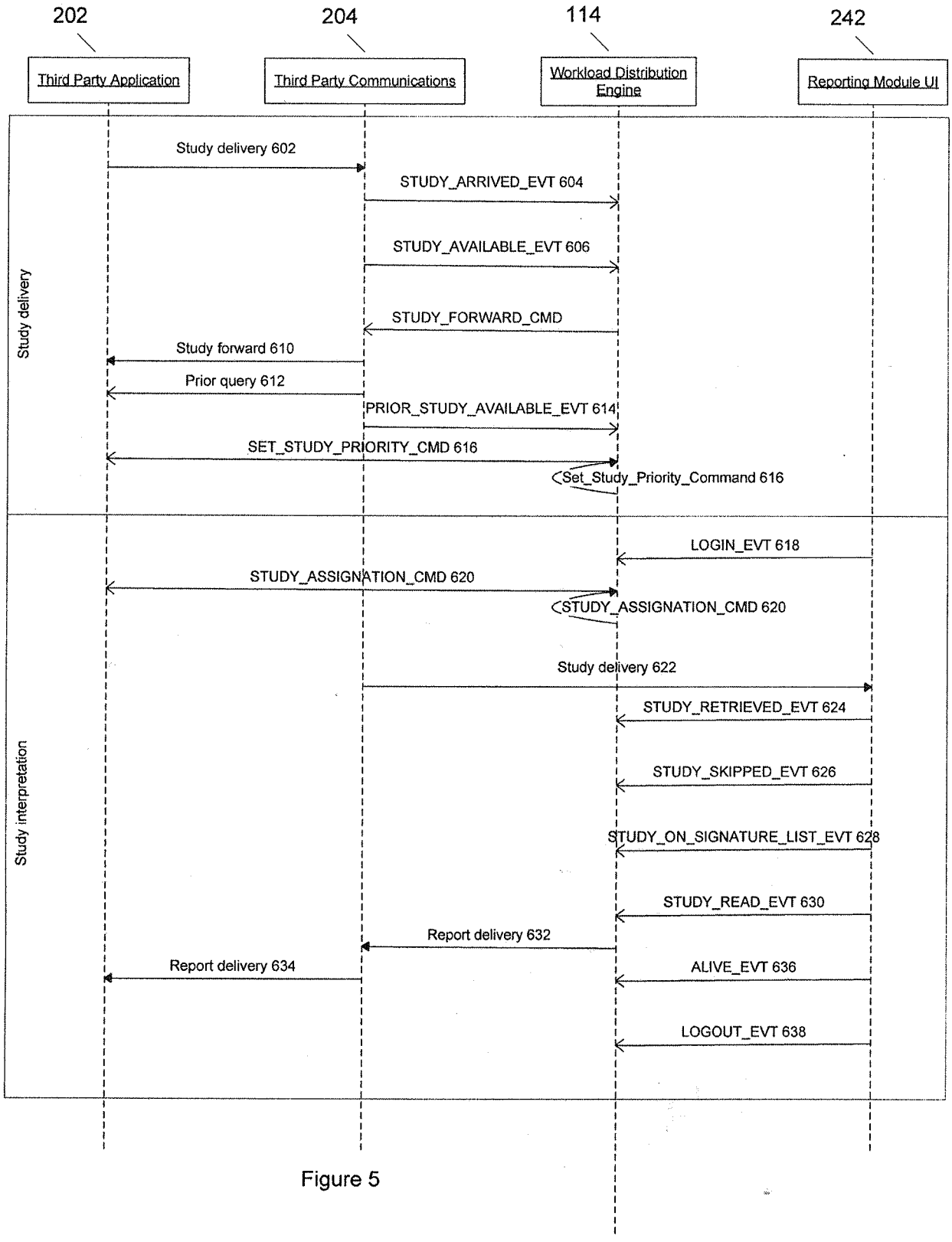

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Figure 5