REPLACEMENT SHEET
Date : 0 8 SEP 2005

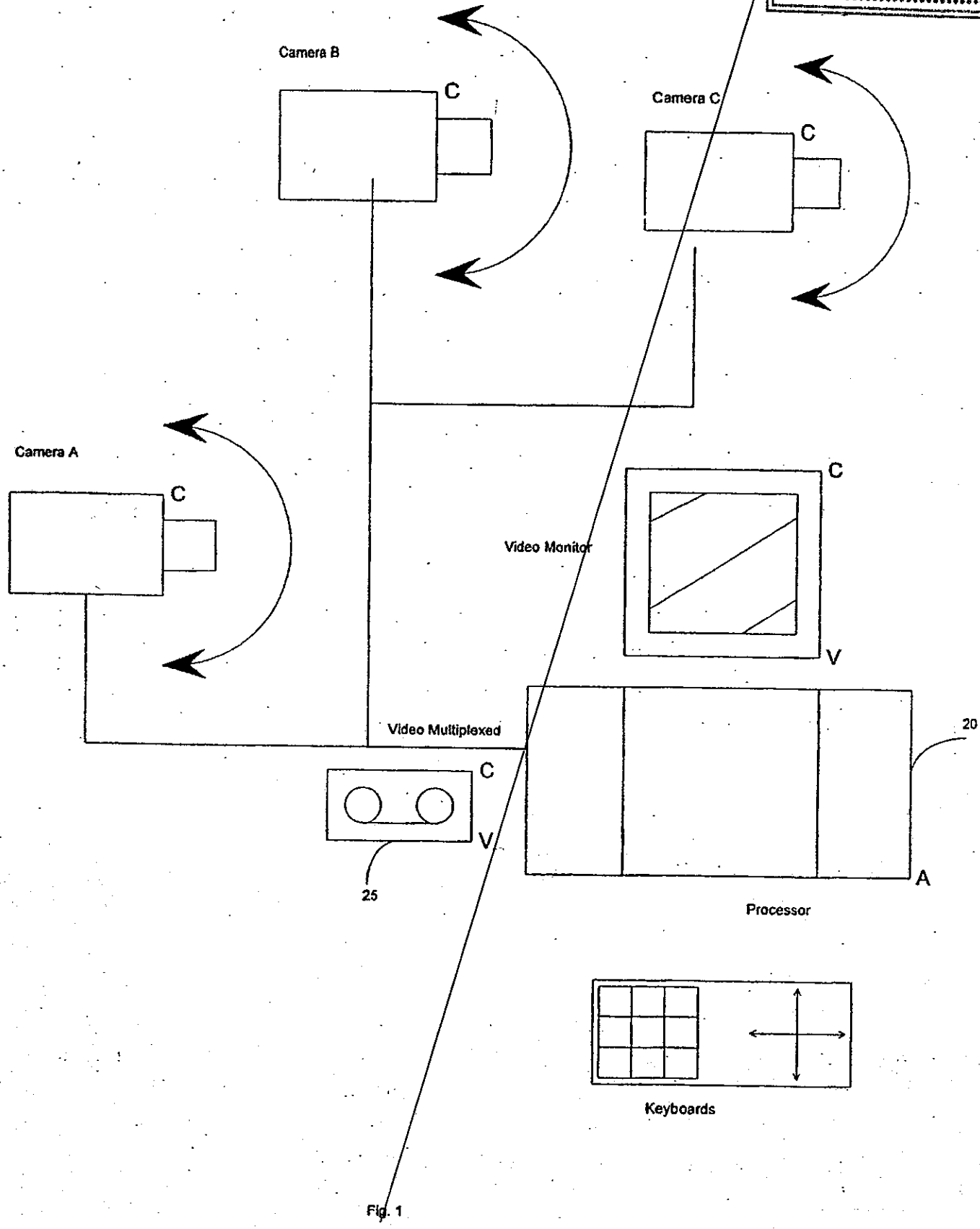


Fig. 1

REPLACEMENT SHEET
0 8 SEP 2005
Date :.....

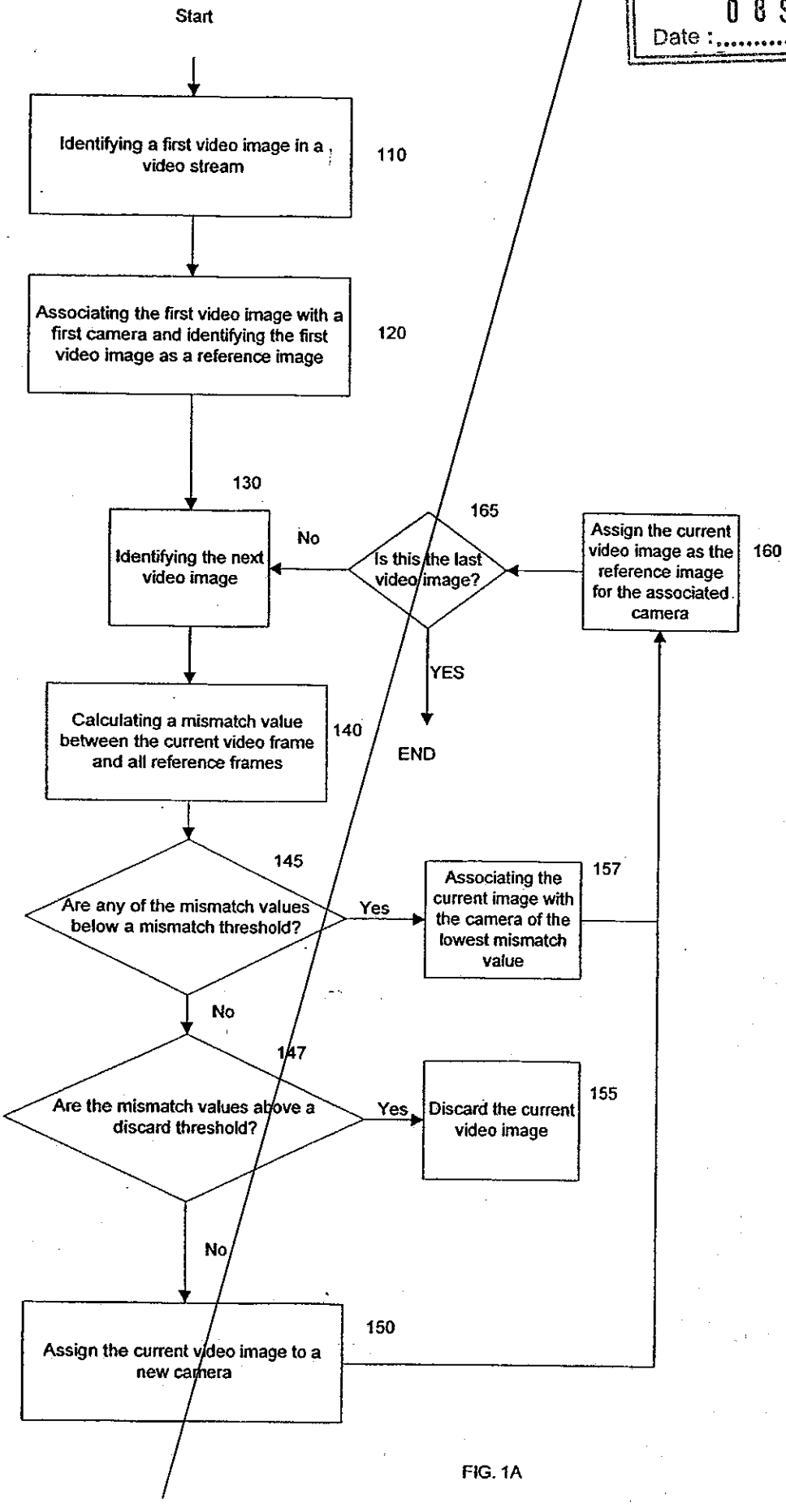


FIG. 1A

REPLACEMENT SHEET
Date : 0 8 SEP 2005

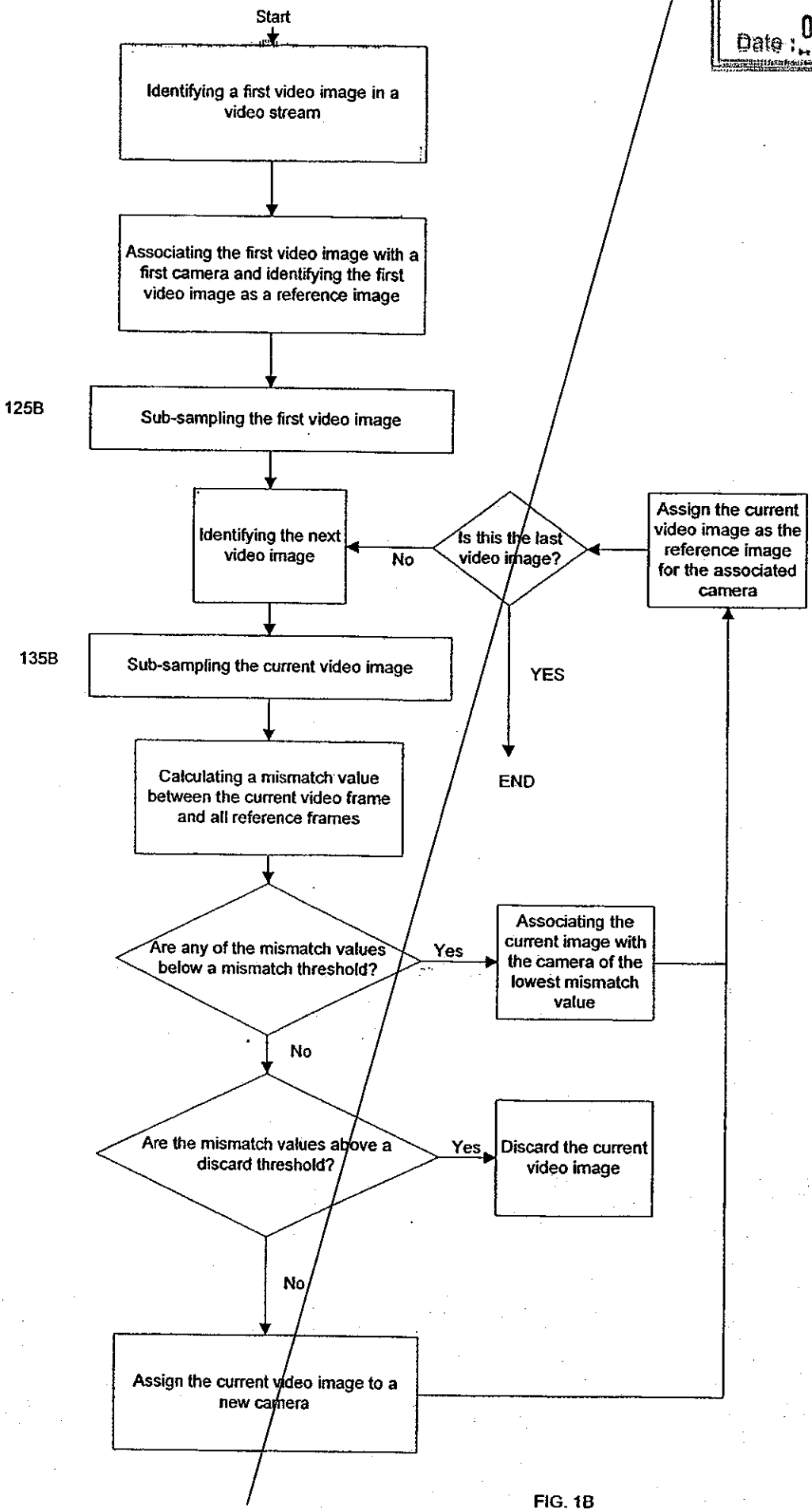


FIG. 1B

REPLACEMENT SHEET
Date : 0 8 SEP 2005

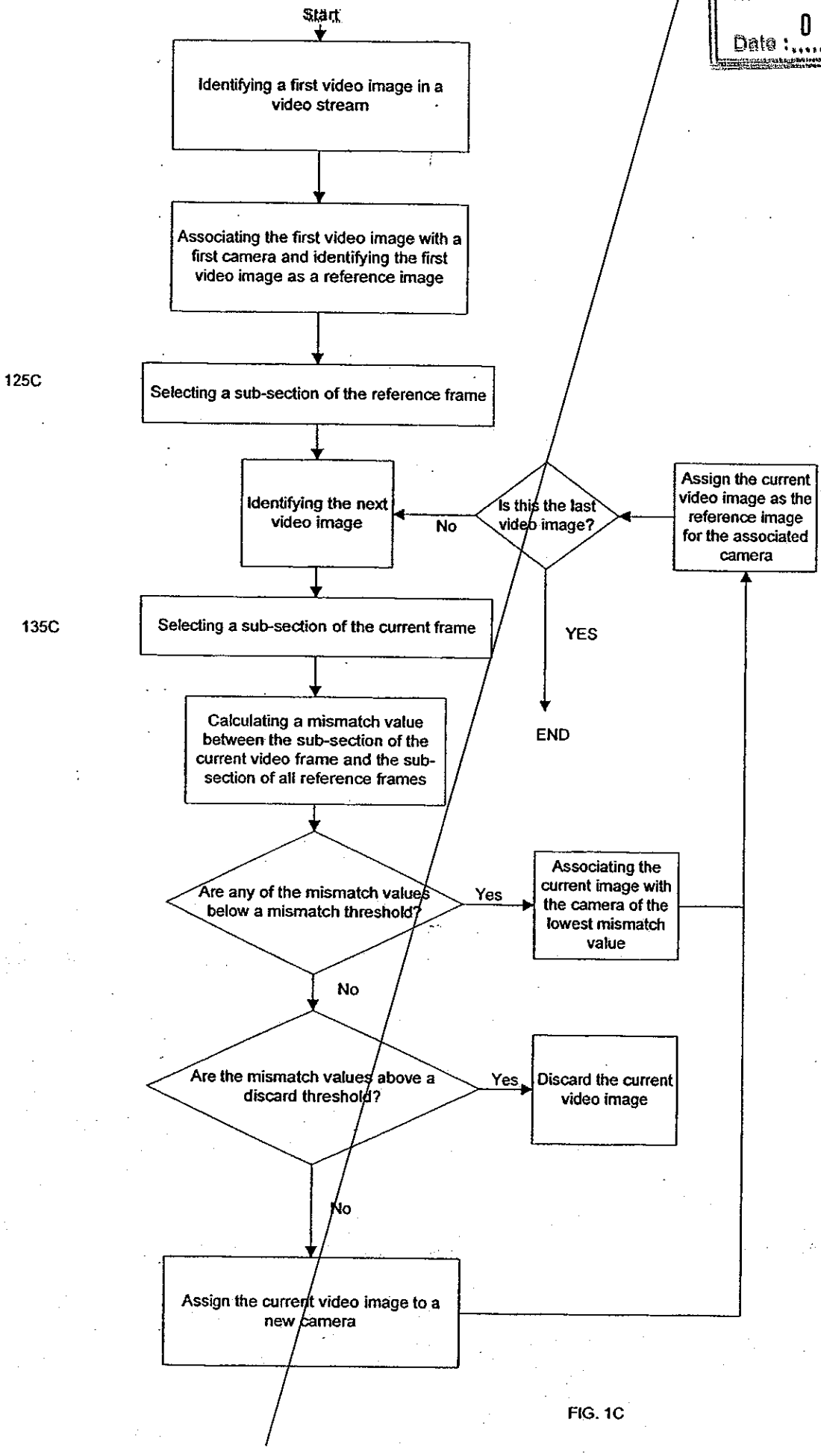


FIG. 1C

REPLACEMENT SHEET
08 SEP 2005
Date :.....

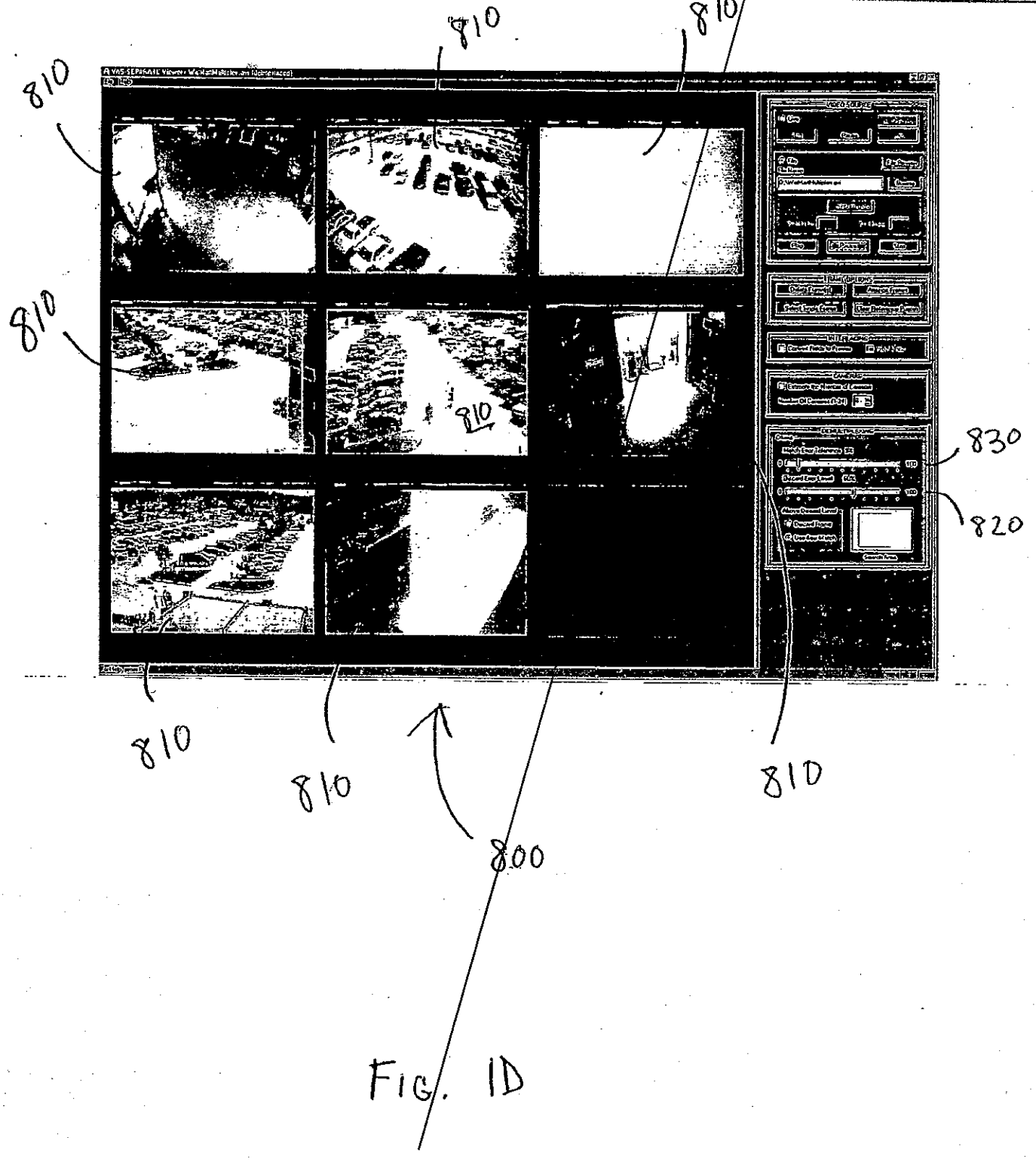


FIG. 1D

REPLACEMENT SHEET
Date : 0 8 SEP 2005

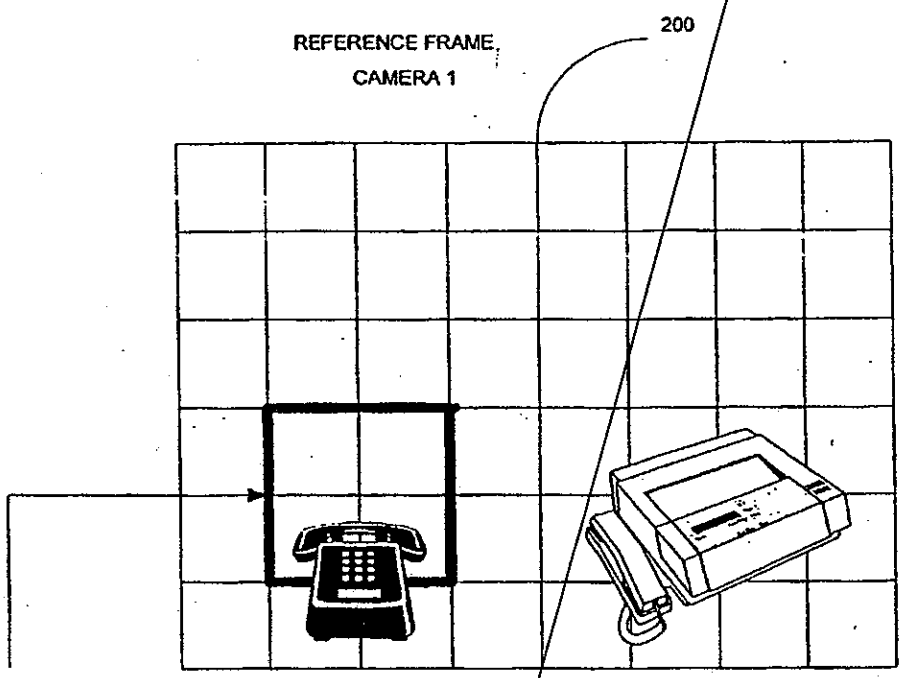


Fig. 2A

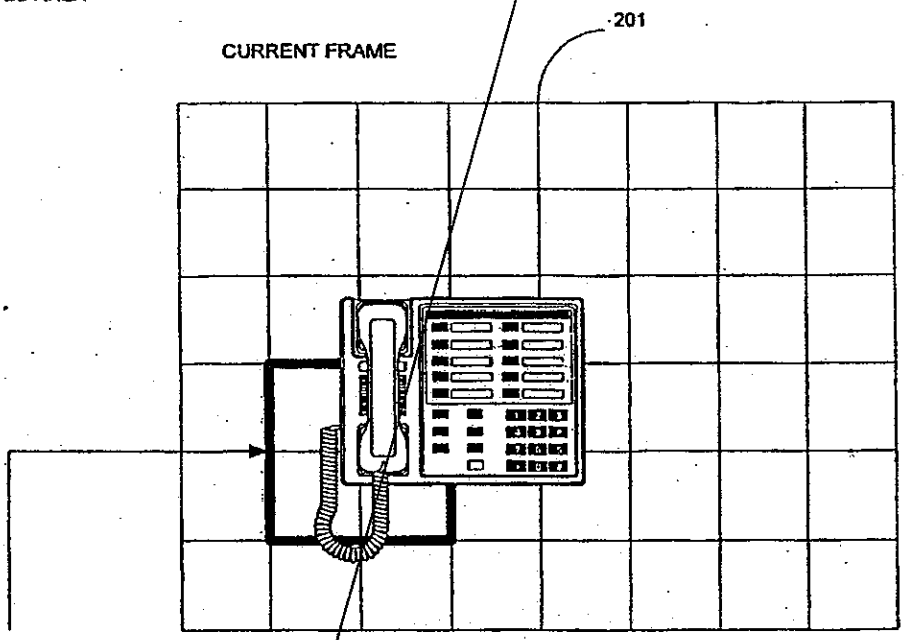


Fig. 2B

REPLACEMENT SHEET
Date : 0 8 SEP 2005

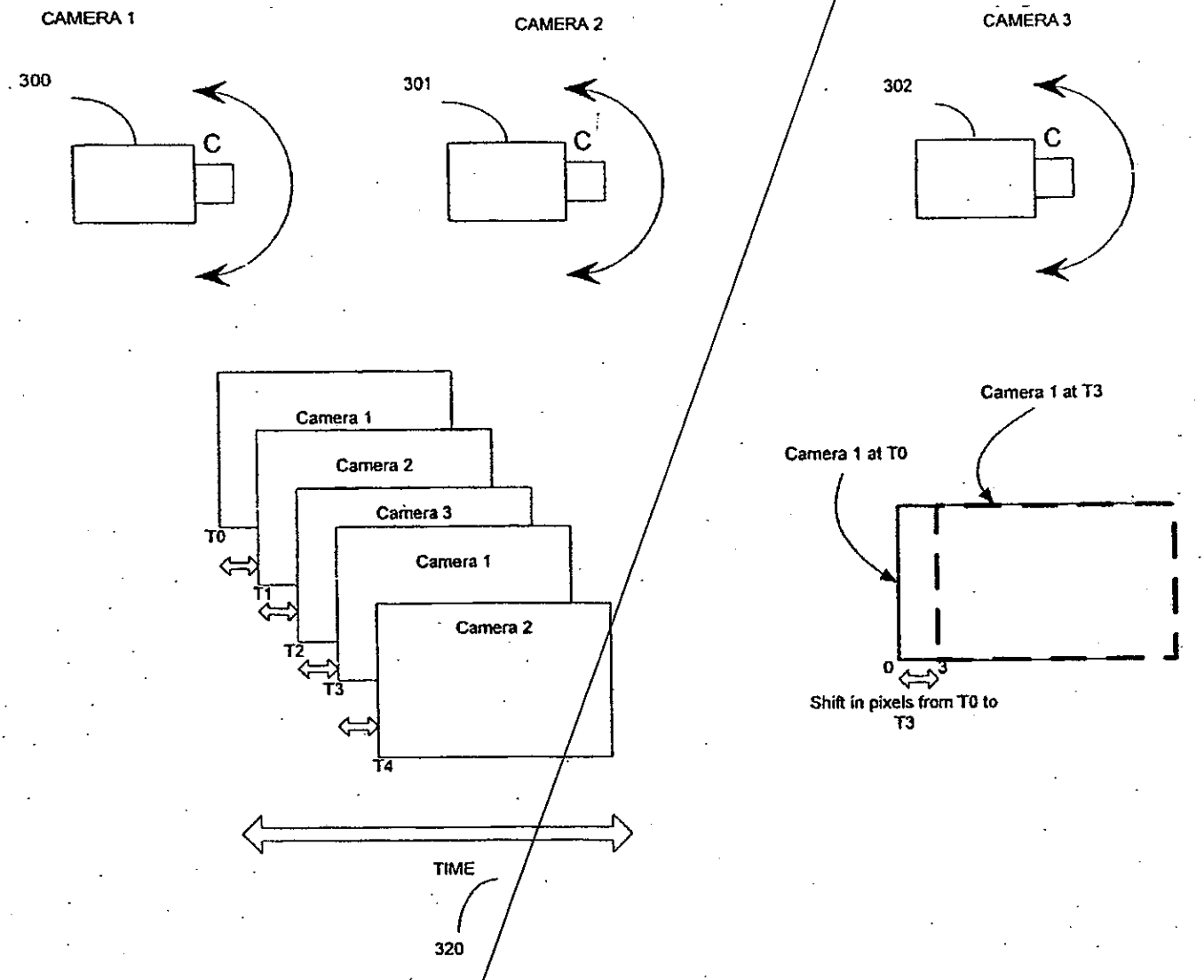


Fig. 3

REPLACEMENT SHEET
Date : 0 8 SEP 2005

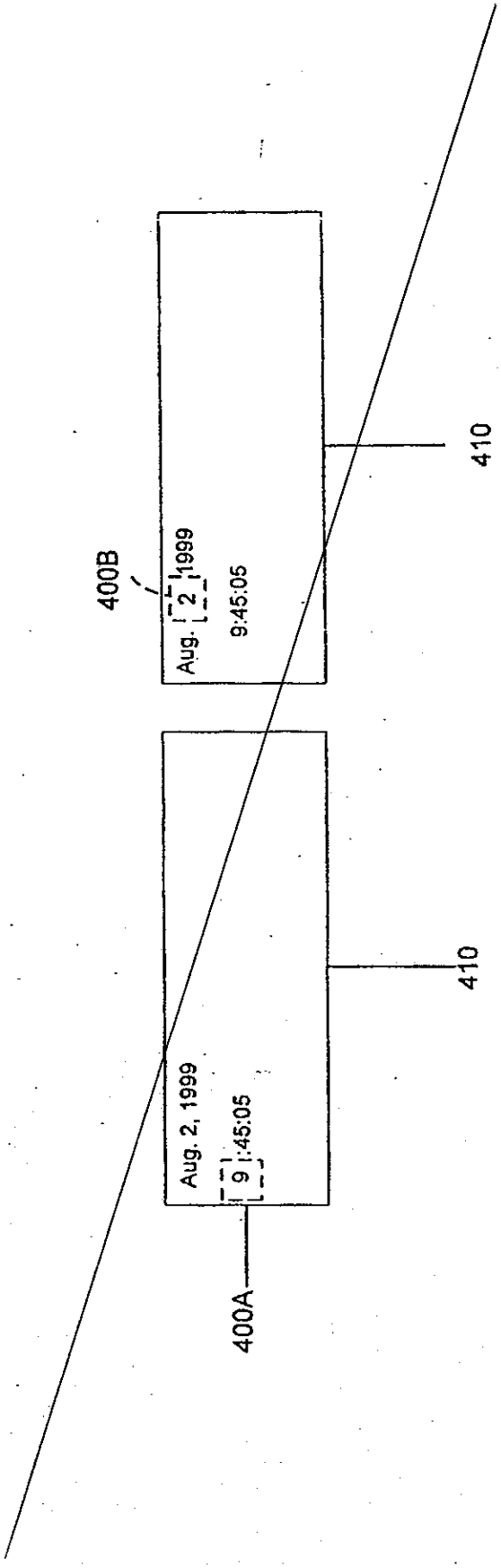


Fig. 4B

Fig. 4A

REPLACEMENT SHEET
Date : 0 8 SEP 2005

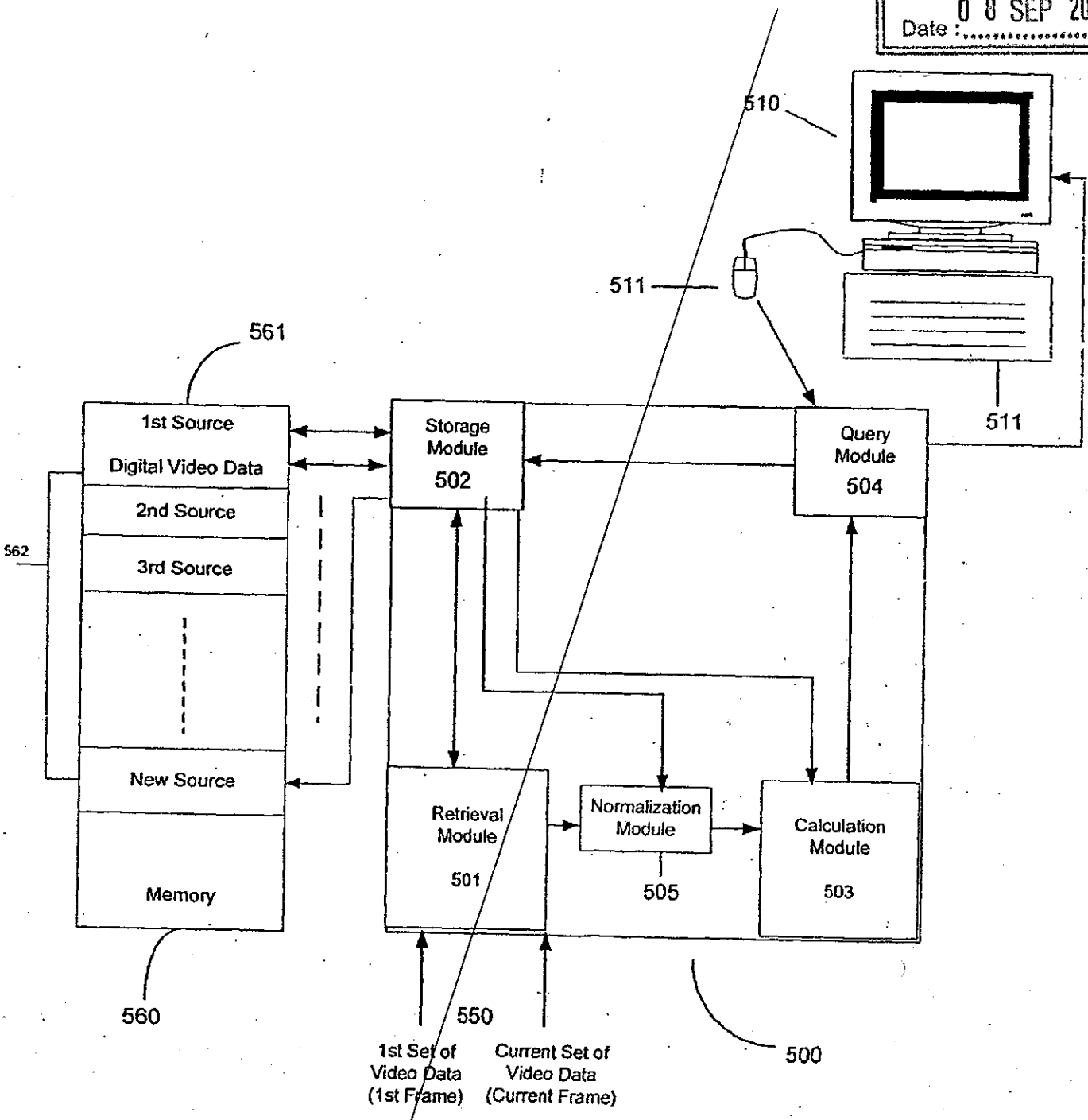


Fig. 5

REPLACEMENT SHEET
Date : 8 September 2005

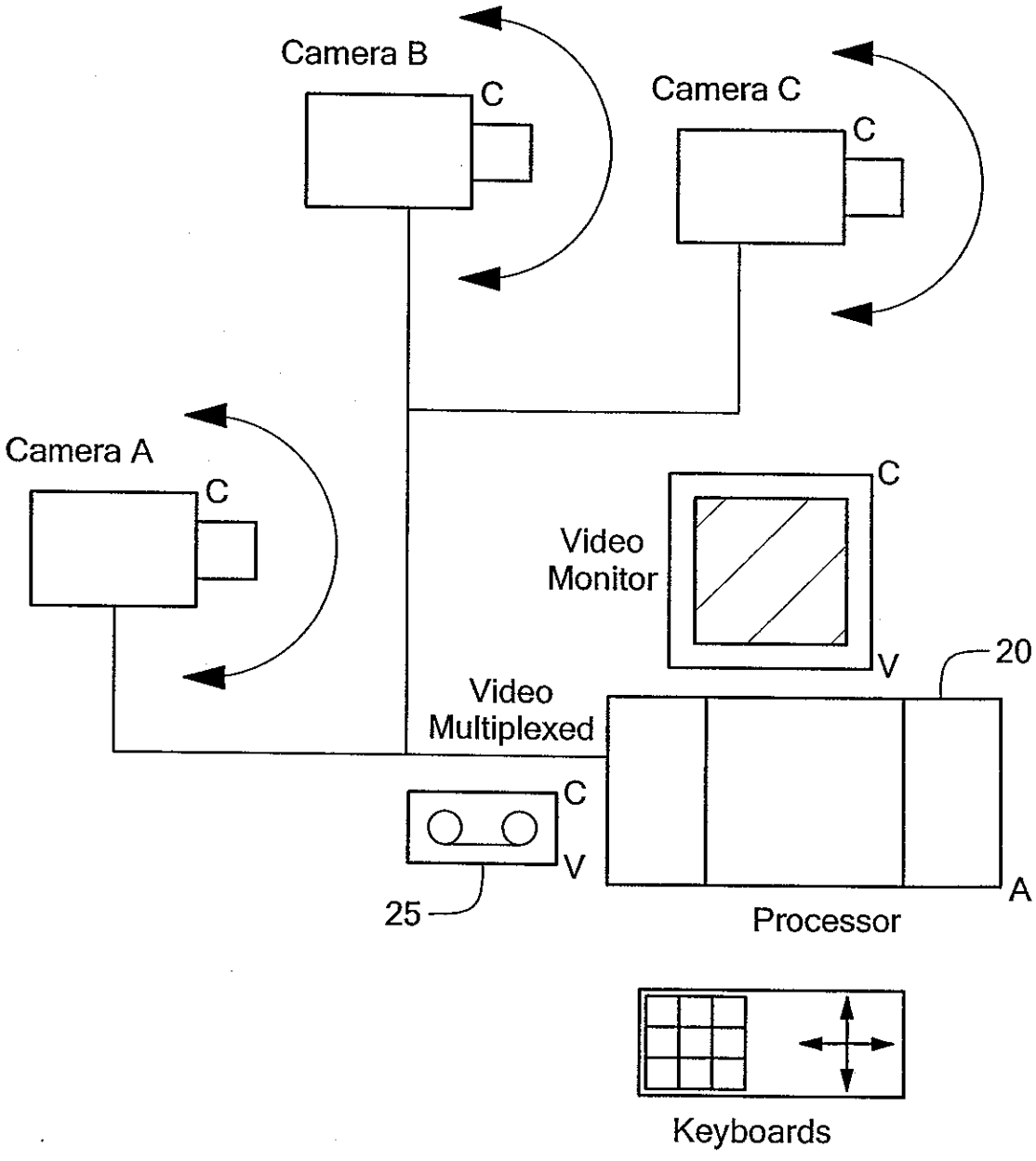
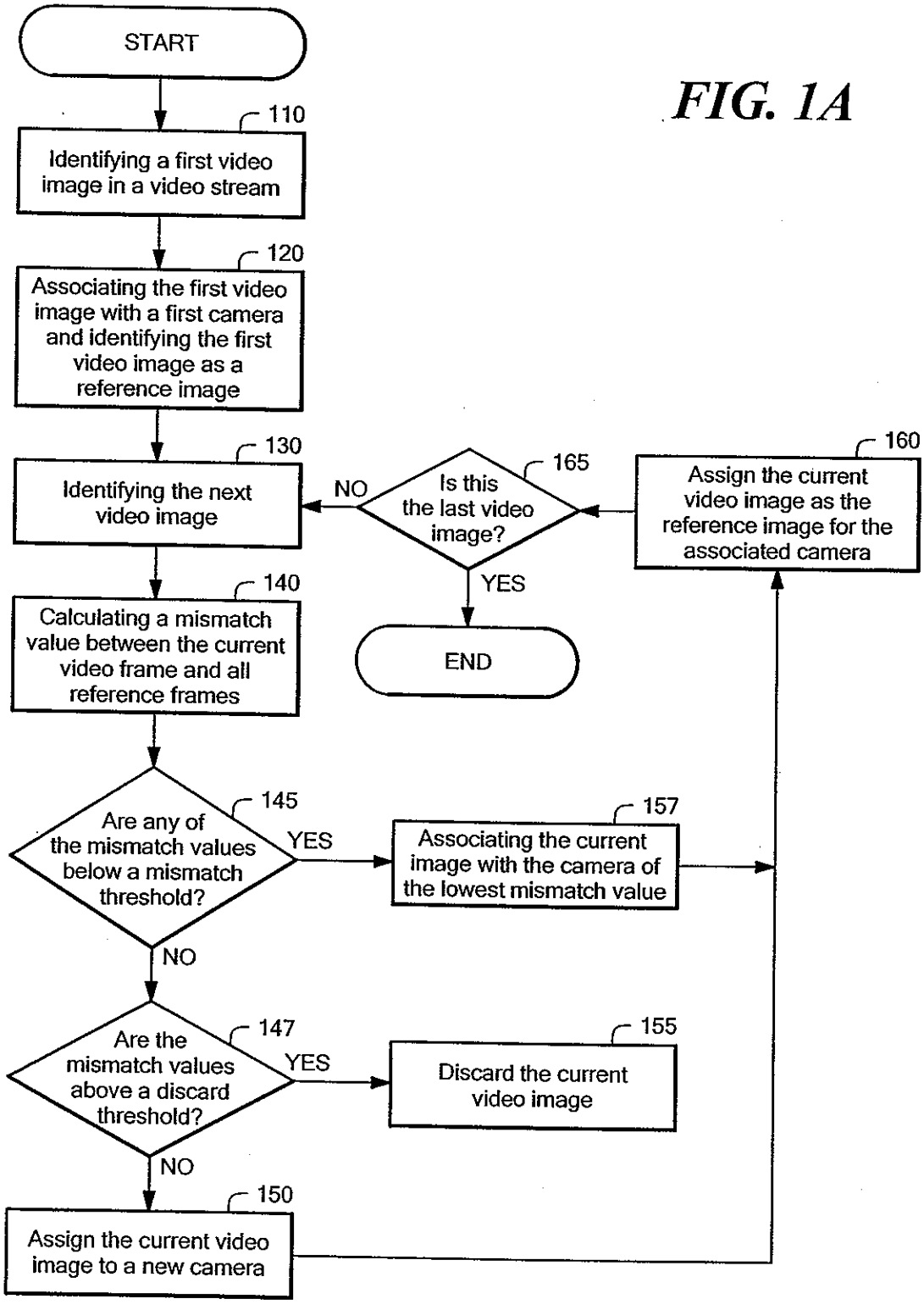


FIG. 1

FIG. 1A


START
110
Identifying a first video image in a video stream
120
Associating the first video image with a first camera and identifying the first video image as a reference image
130
Identifying the next video image
140
Calculating a mismatch value between the current video frame and all reference frames
145
Are any of the mismatch values below a mismatch threshold?
YES
157
Associating the current image with the camera of the lowest mismatch value
NO
147
Are the mismatch values above a discard threshold?
YES
155
Discard the current video image
NO
150
Assign the current video image to a new camera
165
Is this the last video image?
NO
YES
END
160
Assign the current video image as the reference image for the associated camera

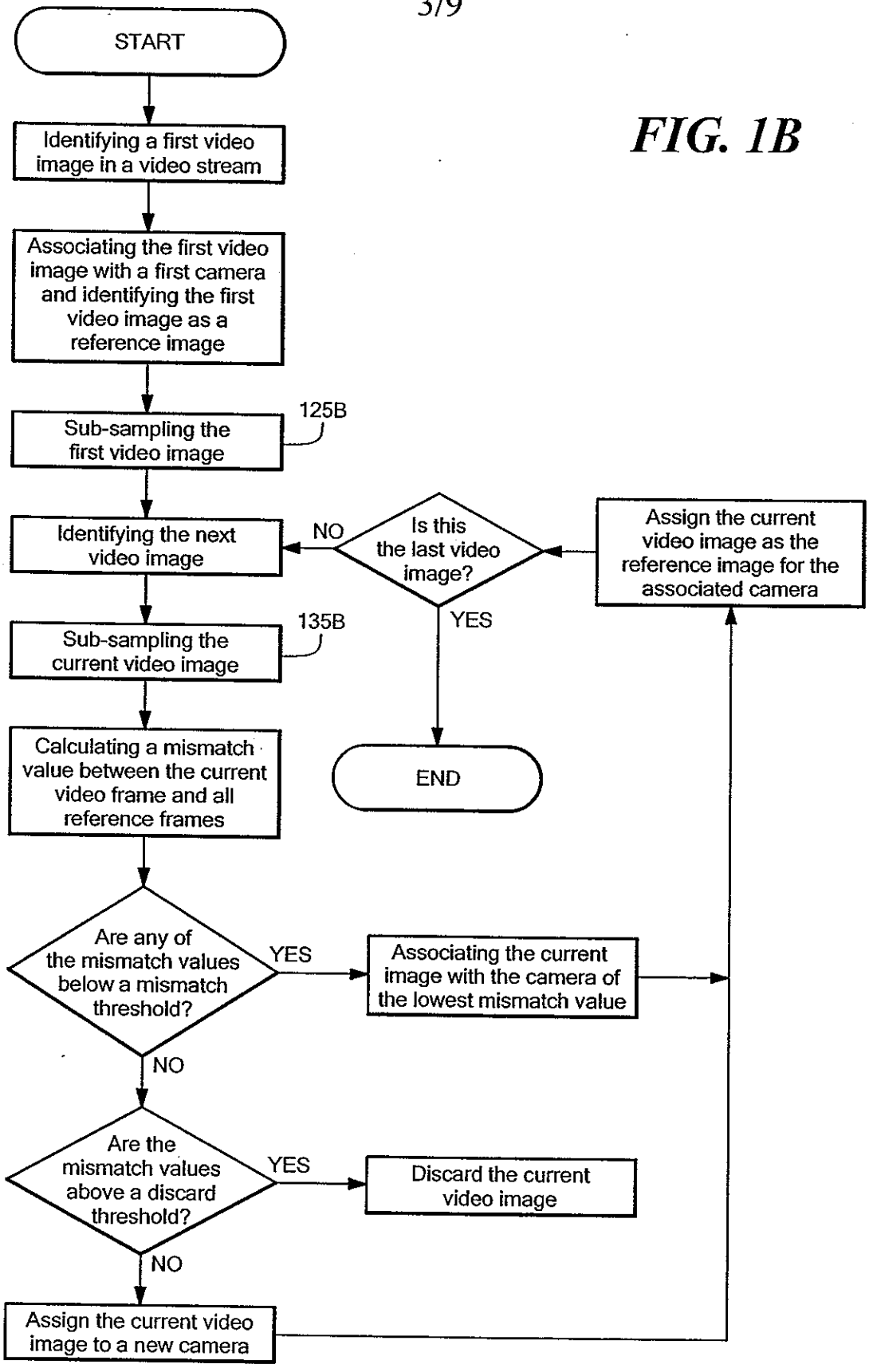
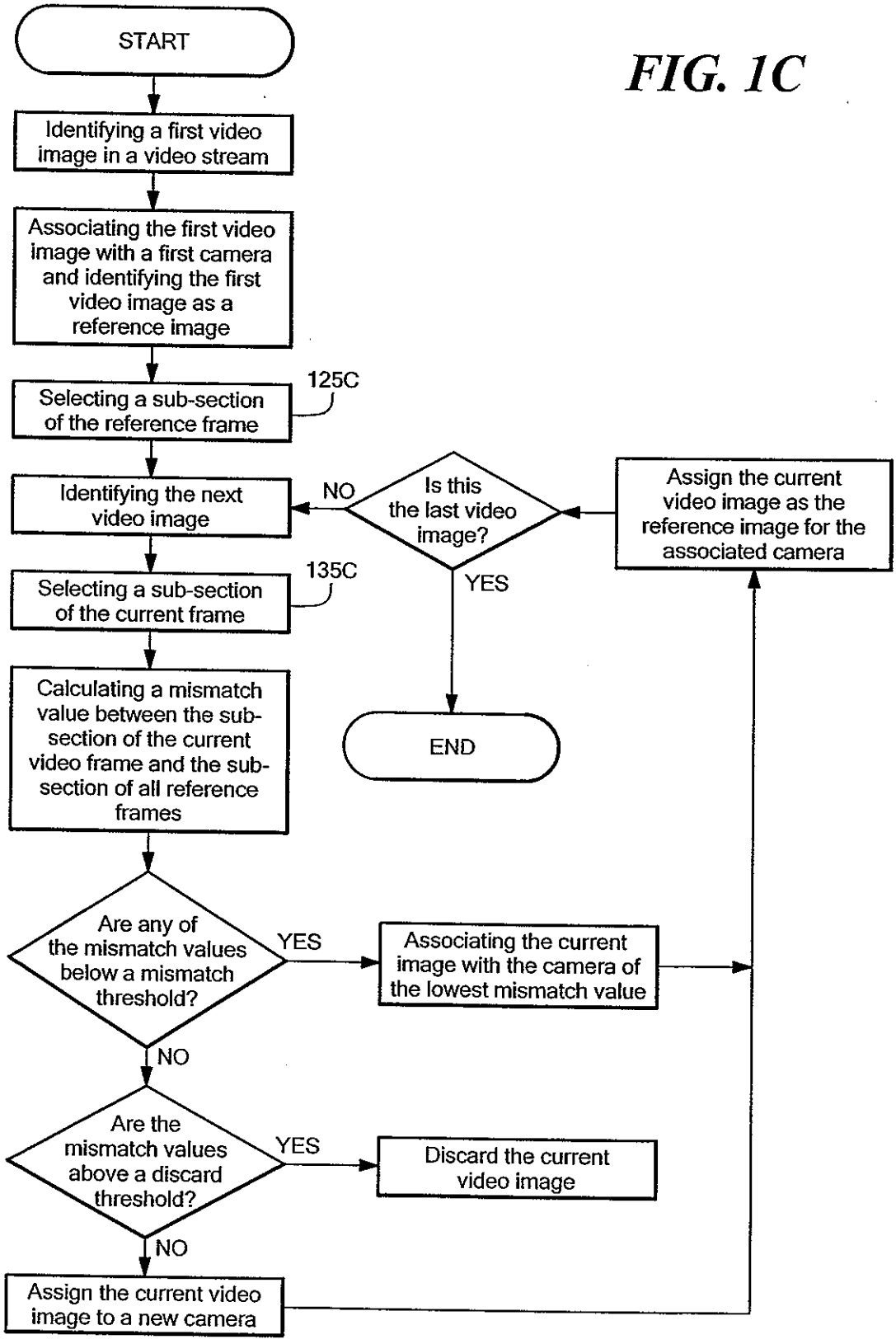

START
Identifying a first video image in a video stream
Associating the first video image with a first camera and identifying the first video image as a reference image
Sub-sampling the first video image
125B
Identifying the next video image
NO
Is this the last video image?
Assign the current video image as the reference image for the associated camera
YES
Sub-sampling the current video image
135B
Calculating a mismatch value between the current video frame and all reference frames
END
Are any of the mismatch values below a mismatch threshold?
YES
Associating the current image with the camera of the lowest mismatch value
NO
Are the mismatch values above a discard threshold?
YES
Discard the current video image
NO
Assign the current video image to a new camera

FIG. 1B

FIG. 1C


START
Identifying a first video image in a video stream
Associating the first video image with a first camera and identifying the first video image as a reference image
Selecting a sub-section of the reference frame
125C
Identifying the next video image
NO
Is this the last video image?
Assign the current video image as the reference image for the associated camera
YES
Selecting a sub-section of the current frame
135C
END
Calculating a mismatch value between the sub-section of the current video frame and the sub-section of all reference frames
Are any of the mismatch values below a mismatch threshold?
YES
Associating the current image with the camera of the lowest mismatch value
NO
Are the mismatch values above a discard threshold?
YES
Discard the current video image
NO
Assign the current video image to a new camera

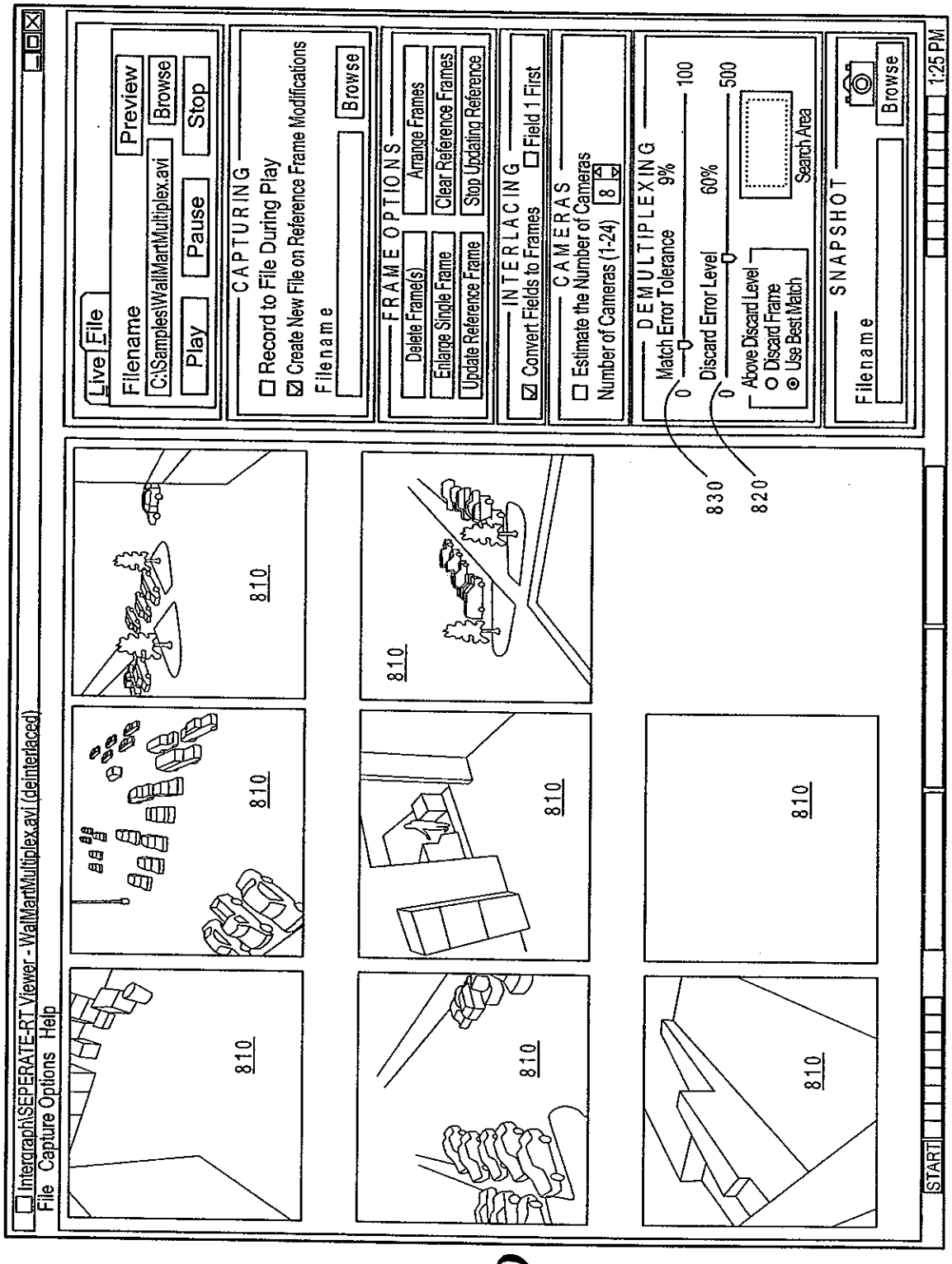

800
IntergraphSEPERATE-RT Viewer - WalMartMultiplex.avi (deinterlaced)
File Capture Options Help
Live File
Filename
C:\Samples\WalMartMultiplex.avi
Preview
Browse
Play
Pause
Stop
CAPTURING
Record to File During Play
Create New File on Reference Frame Modifications
File name
Browse
FRAME OPTIONS
Delete Frame(s)
Arrange Frames
Enlarge Single Frame
Clear Reference Frames
Update Reference Frame
Stop Updating Reference
INTERLACING
Convert Fields to Frames
Field 1 First
CAMERAS
Estimate the Number of Cameras
Number of Cameras (1-24)
8
DEMULTIPLEXING
Match Error Tolerance
9%
0
100
Discard Error Level
60%
0
500
Above Discard Level
Discard Frame
Use Best Match
Search Area
SNAPSHOT
Filename
Browse
START
1:25 PM
810
820
830

FIG. 1D

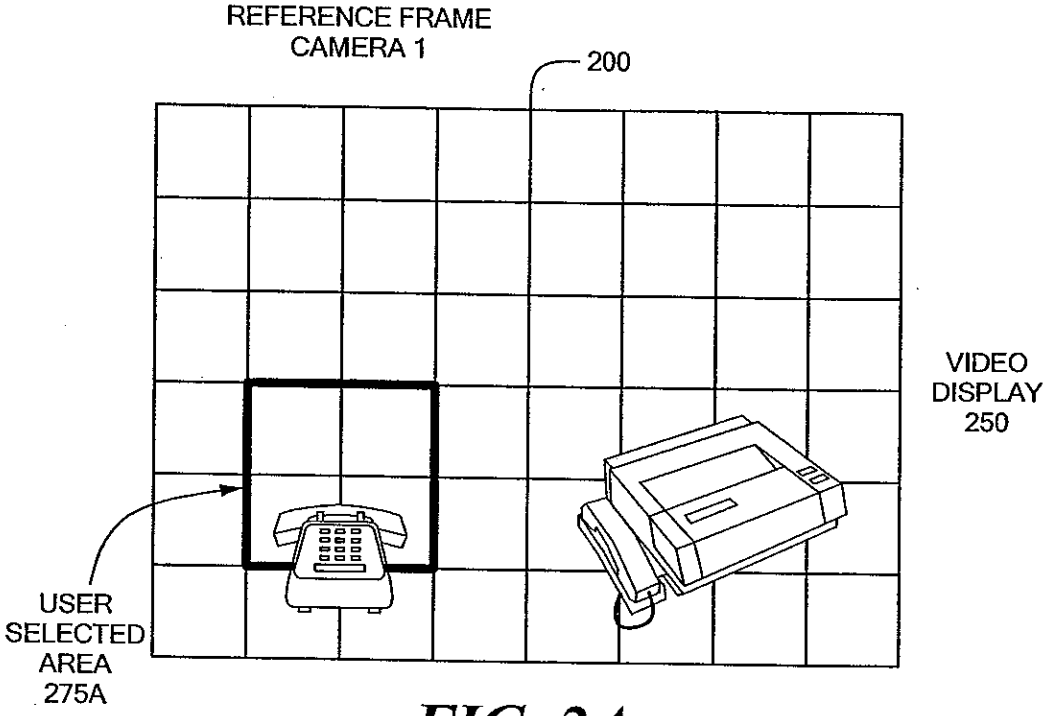

REFERENCE FRAME
CAMERA 1
200
VIDEO
DISPLAY
250
USER
SELECTED
AREA
275A

FIG. 2A

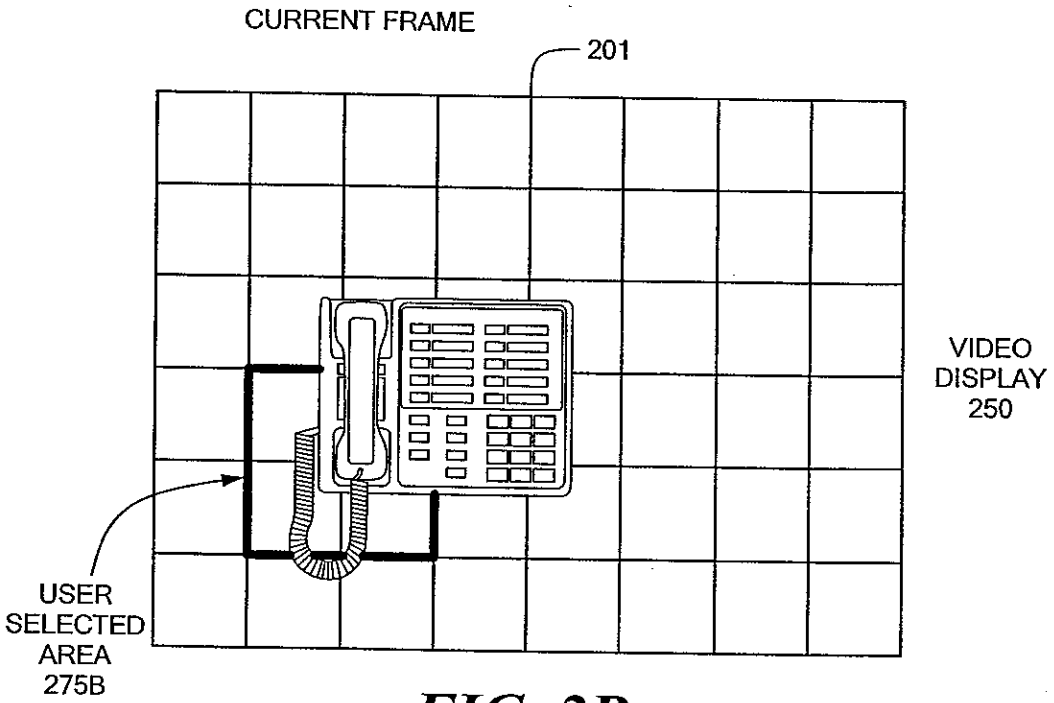

CURRENT FRAME
201
VIDEO
DISPLAY
250
USER
SELECTED
AREA
275B

FIG. 2B

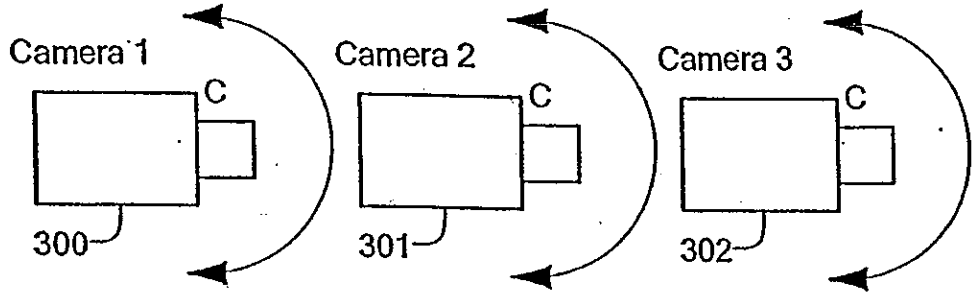


FIG. 3

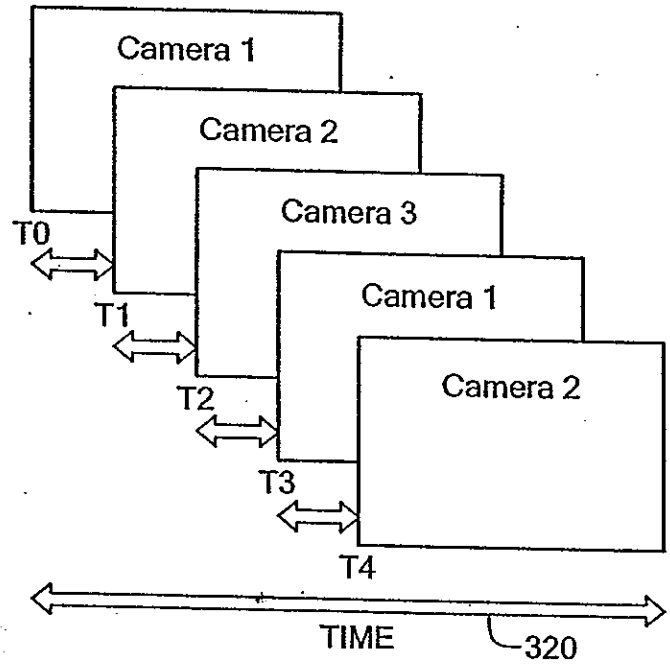


FIG. 3A

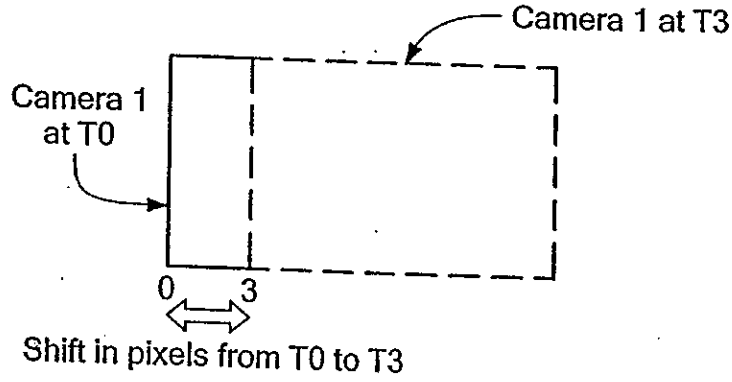


FIG. 3B

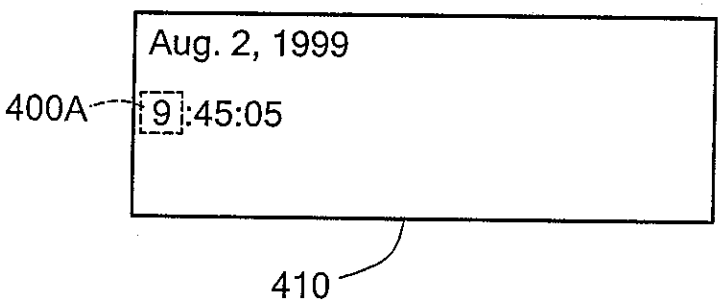


FIG. 4A

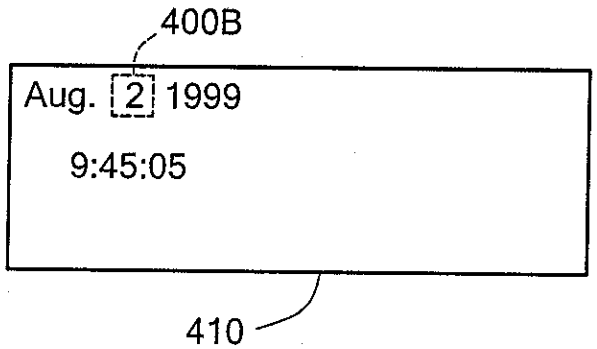


FIG. 4B

REPLACEMENT SHEET
Date : 8 September 2005

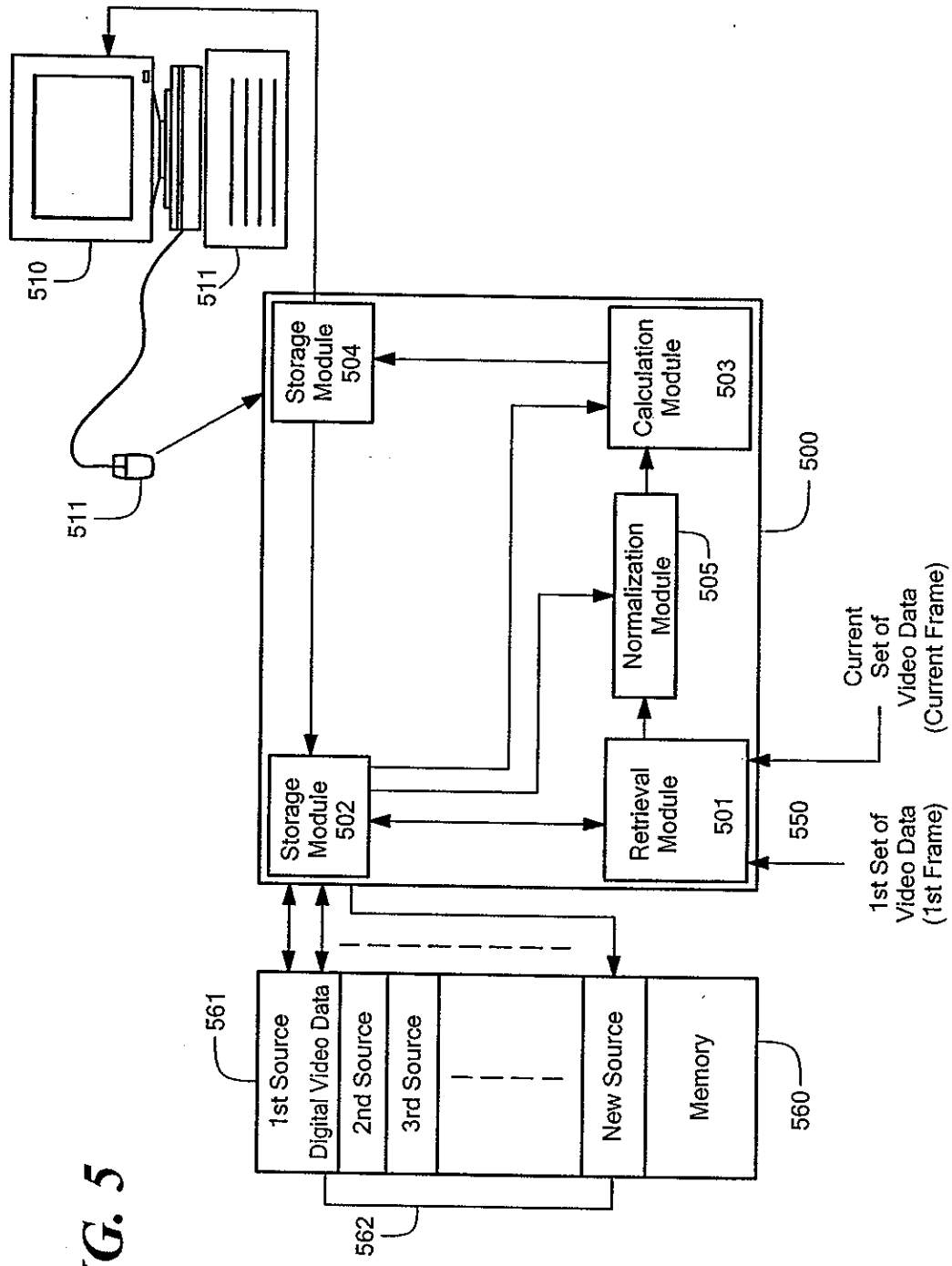

510
511
511
Storage Module 504
Calculation Module 503
500
Normalization Module
505
Current Set of Video Data (Current Frame)
Storage Module 502
Retrieval Module 501
550
1st Set of Video Data (1st Frame)
561
1st Source Digital Video Data
2nd Source
3rd Source
New Source
Memory
560
562

FIG. 5