163163

G00002

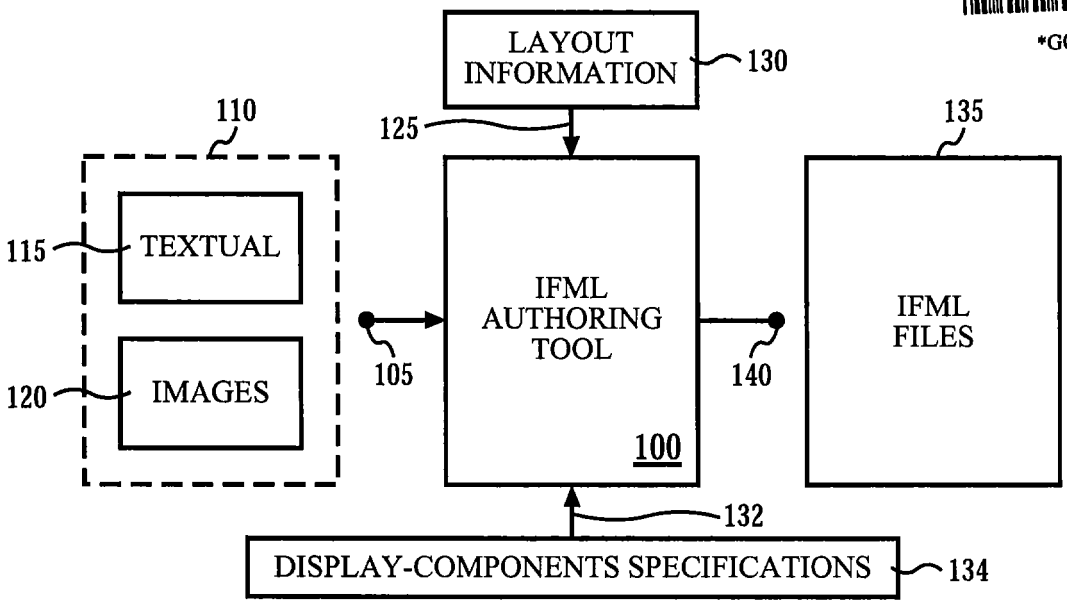


FIG. 1

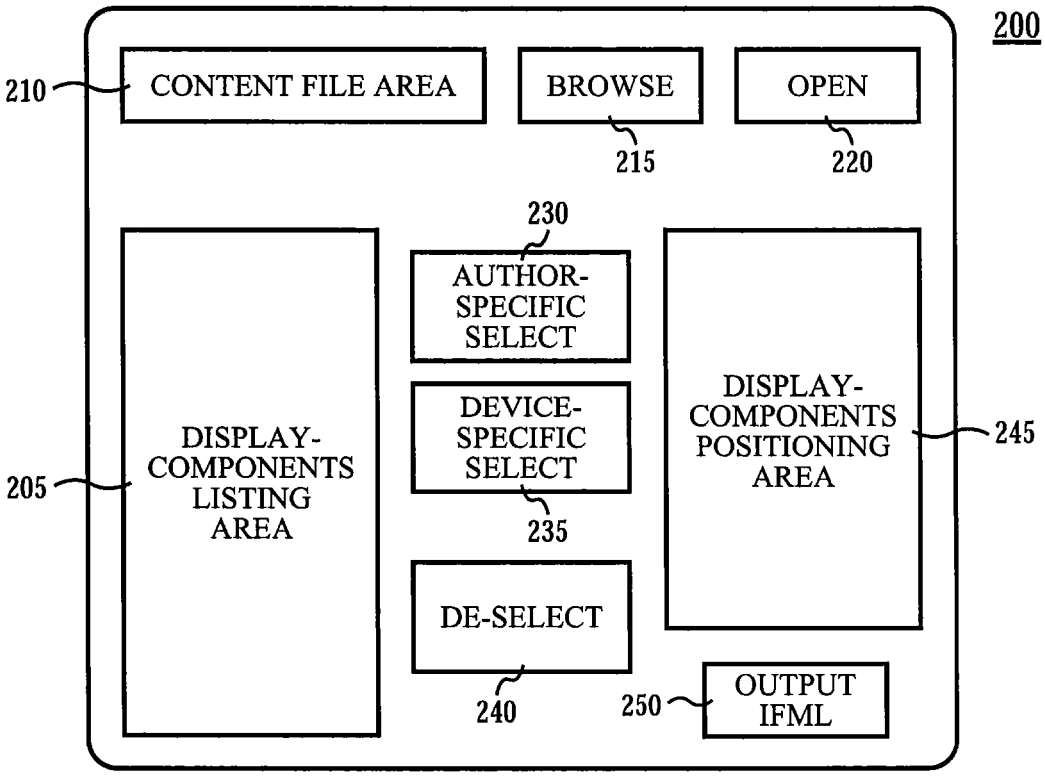


FIG. 2

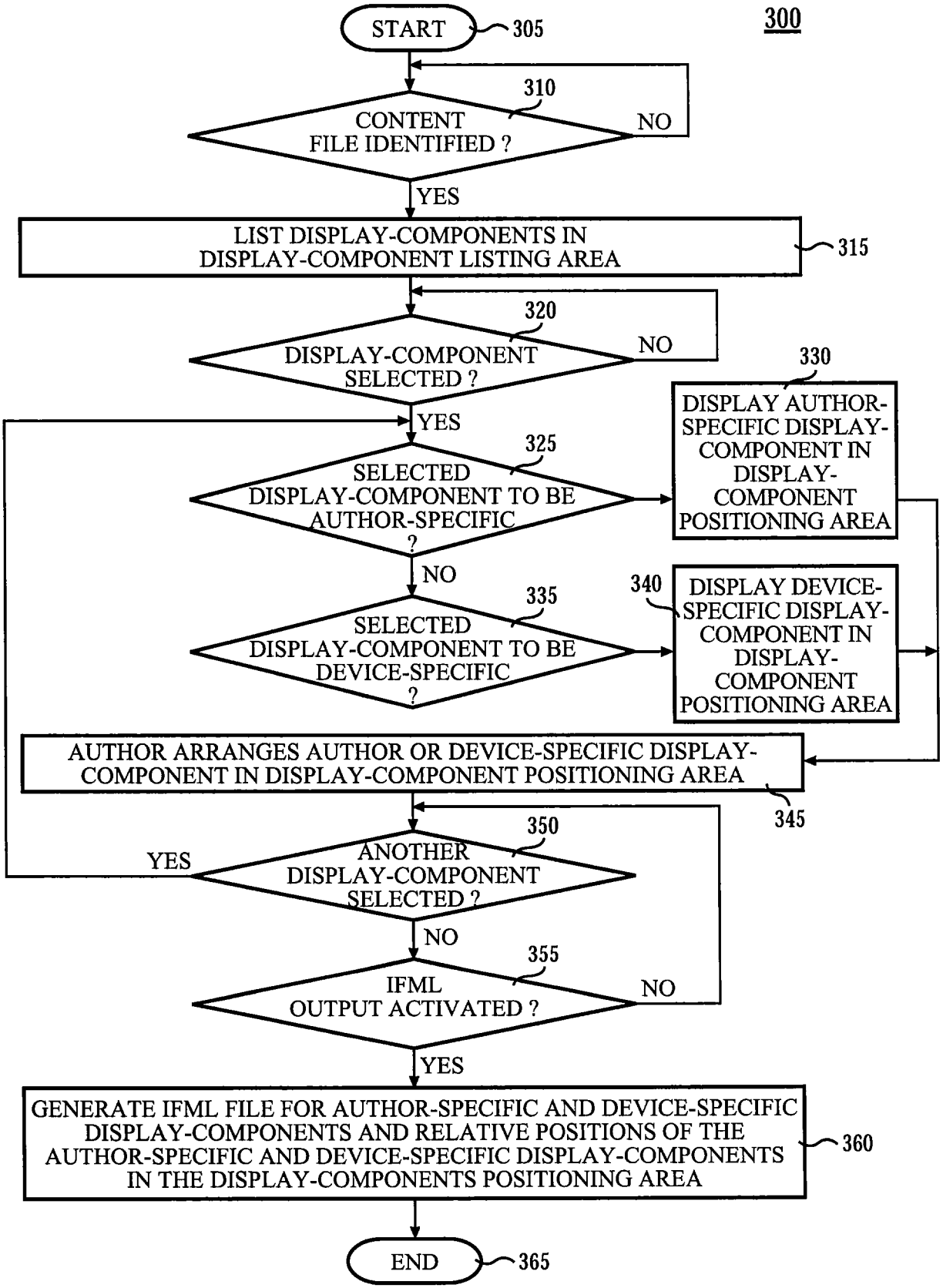

300
START
305
310
CONTENT FILE IDENTIFIED ?
NO
YES
LIST DISPLAY-COMPONENTS IN DISPLAY-COMPONENT LISTING AREA
315
320
DISPLAY-COMPONENT SELECTED ?
NO
YES
330
DISPLAY AUTHOR-SPECIFIC DISPLAY-COMPONENT IN DISPLAY-COMPONENT POSITIONING AREA
325
SELECTED DISPLAY-COMPONENT TO BE AUTHOR-SPECIFIC ?
NO
335
SELECTED DISPLAY-COMPONENT TO BE DEVICE-SPECIFIC ?
340
DISPLAY DEVICE-SPECIFIC DISPLAY-COMPONENT IN DISPLAY-COMPONENT POSITIONING AREA
AUTHOR ARRANGES AUTHOR OR DEVICE-SPECIFIC DISPLAY-COMPONENT IN DISPLAY-COMPONENT POSITIONING AREA
345
350
ANOTHER DISPLAY-COMPONENT SELECTED ?
YES
NO
355
IFML OUTPUT ACTIVATED ?
NO
YES
GENERATE IFML FILE FOR AUTHOR-SPECIFIC AND DEVICE-SPECIFIC DISPLAY-COMPONENTS AND RELATIVE POSITIONS OF THE AUTHOR-SPECIFIC AND DEVICE-SPECIFIC DISPLAY-COMPONENTS IN THE DISPLAY-COMPONENTS POSITIONING AREA
360
END
365

FIG. 3

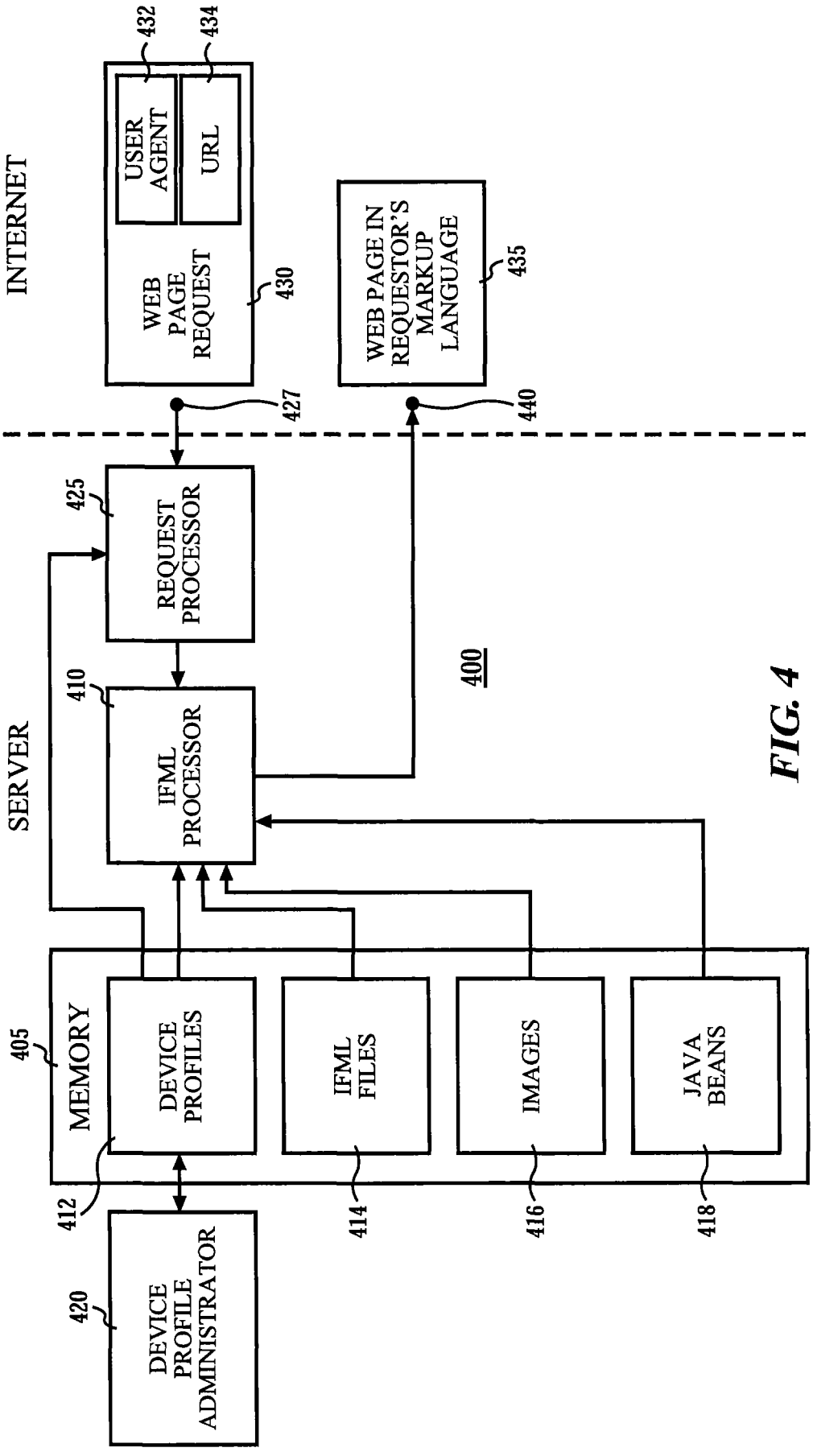

INTERNET
SERVER
MEMORY
405
DEVICE PROFILES
412
IFML FILES
414
IMAGES
416
JAVA BEANS
418
DEVICE PROFILE ADMINISTRATOR
420
REQUEST PROCESSOR
425
IFML PROCESSOR
410
400
427
440
WEB PAGE REQUEST
430
USER AGENT
432
URL
434
WEB PAGE IN REQUESTOR'S MARKUP LANGUAGE
435

FIG. 4

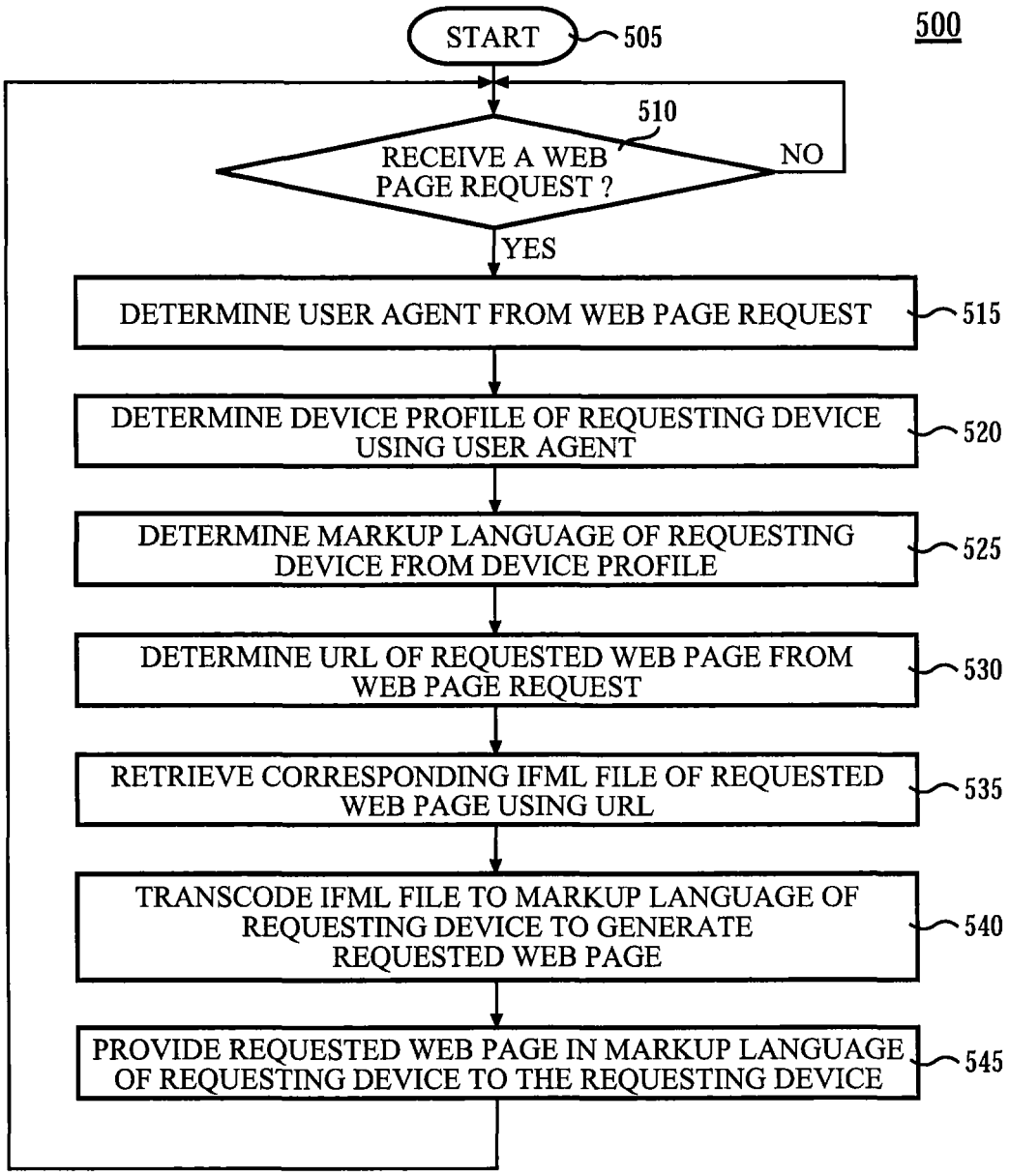

500
START
505
510
RECEIVE A WEB PAGE REQUEST ?
NO
YES
DETERMINE USER AGENT FROM WEB PAGE REQUEST
515
DETERMINE DEVICE PROFILE OF REQUESTING DEVICE USING USER AGENT
520
DETERMINE MARKUP LANGUAGE OF REQUESTING DEVICE FROM DEVICE PROFILE
525
DETERMINE URL OF REQUESTED WEB PAGE FROM WEB PAGE REQUEST
530
RETRIEVE CORRESPONDING IFML FILE OF REQUESTED WEB PAGE USING URL
535
TRANSCODE IFML FILE TO MARKUP LANGUAGE OF REQUESTING DEVICE TO GENERATE REQUESTED WEB PAGE
540
PROVIDE REQUESTED WEB PAGE IN MARKUP LANGUAGE OF REQUESTING DEVICE TO THE REQUESTING DEVICE
545

FIG. 5

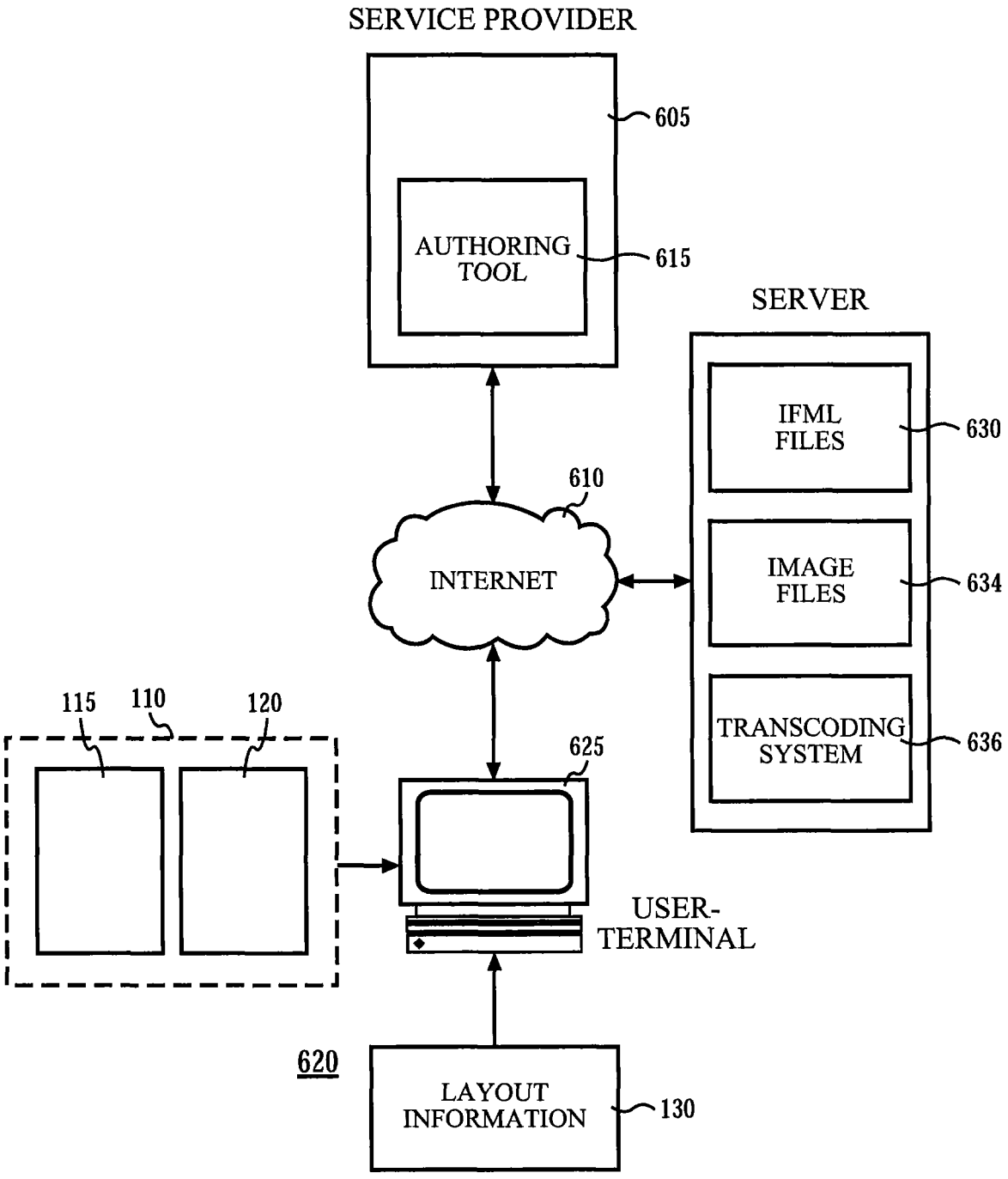

SERVICE PROVIDER
605
AUTHORING TOOL
615
SERVER
IFML FILES
630
610
INTERNET
IMAGE FILES
634
TRANSCODING SYSTEM
636
115
110
120
625
USER-TERMINAL
620
LAYOUT INFORMATION
130

FIG. 6

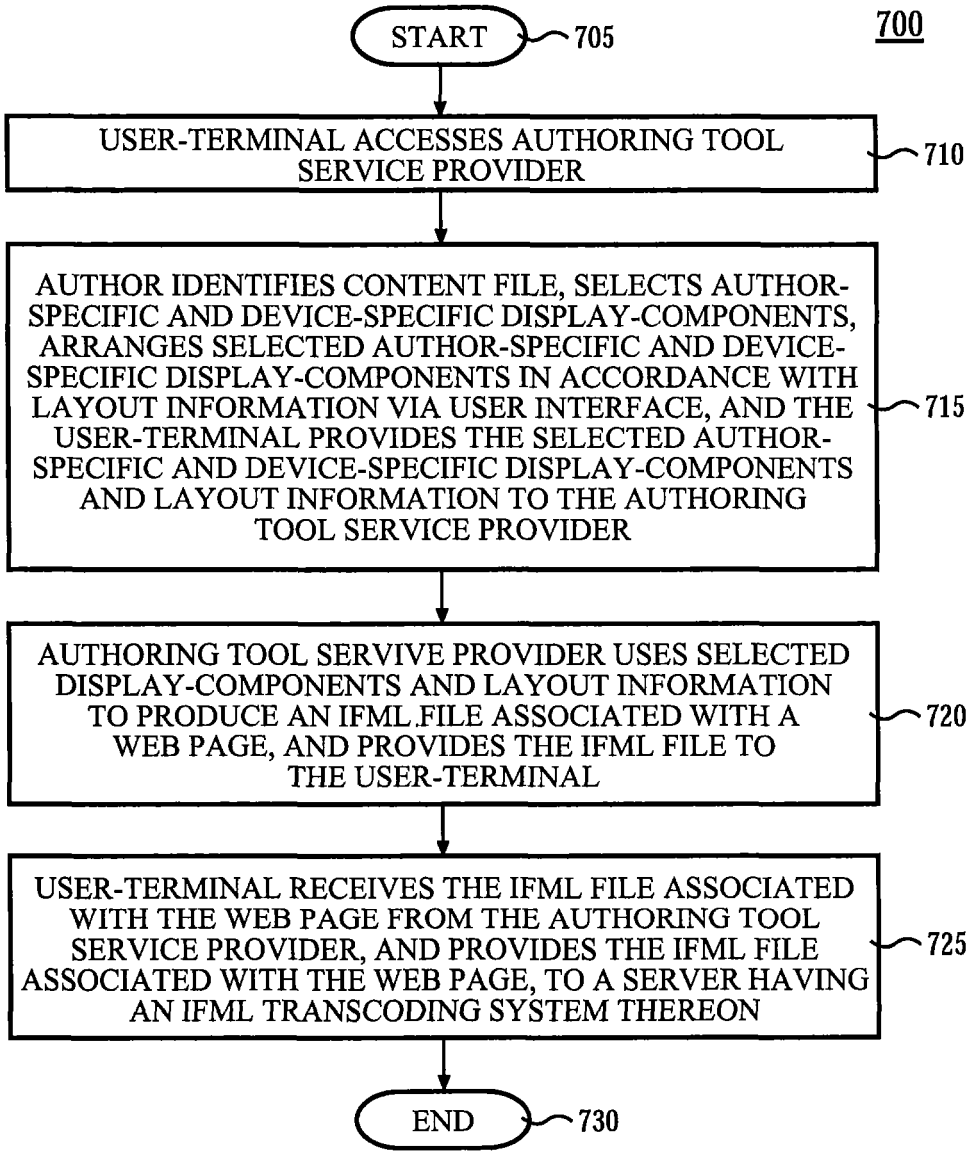

700
START
705
USER-TERMINAL ACCESSES AUTHORING TOOL SERVICE PROVIDER
710
AUTHOR IDENTIFIES CONTENT FILE, SELECTS AUTHOR-SPECIFIC AND DEVICE-SPECIFIC DISPLAY-COMPONENTS, ARRANGES SELECTED AUTHOR-SPECIFIC AND DEVICE-SPECIFIC DISPLAY-COMPONENTS IN ACCORDANCE WITH LAYOUT INFORMATION VIA USER INTERFACE, AND THE USER-TERMINAL PROVIDES THE SELECTED AUTHOR-SPECIFIC AND DEVICE-SPECIFIC DISPLAY-COMPONENTS AND LAYOUT INFORMATION TO THE AUTHORING TOOL SERVICE PROVIDER
715
AUTHORING TOOL SERVIVE PROVIDER USES SELECTED DISPLAY-COMPONENTS AND LAYOUT INFORMATION TO PRODUCE AN IFML.FILE ASSOCIATED WITH A WEB PAGE, AND PROVIDES THE IFML FILE TO THE USER-TERMINAL
720
USER-TERMINAL RECEIVES THE IFML FILE ASSOCIATED WITH THE WEB PAGE FROM THE AUTHORING TOOL SERVICE PROVIDER, AND PROVIDES THE IFML FILE ASSOCIATED WITH THE WEB PAGE, TO A SERVER HAVING AN IFML TRANSCODING SYSTEM THEREON
725
END
730

FIG. 7

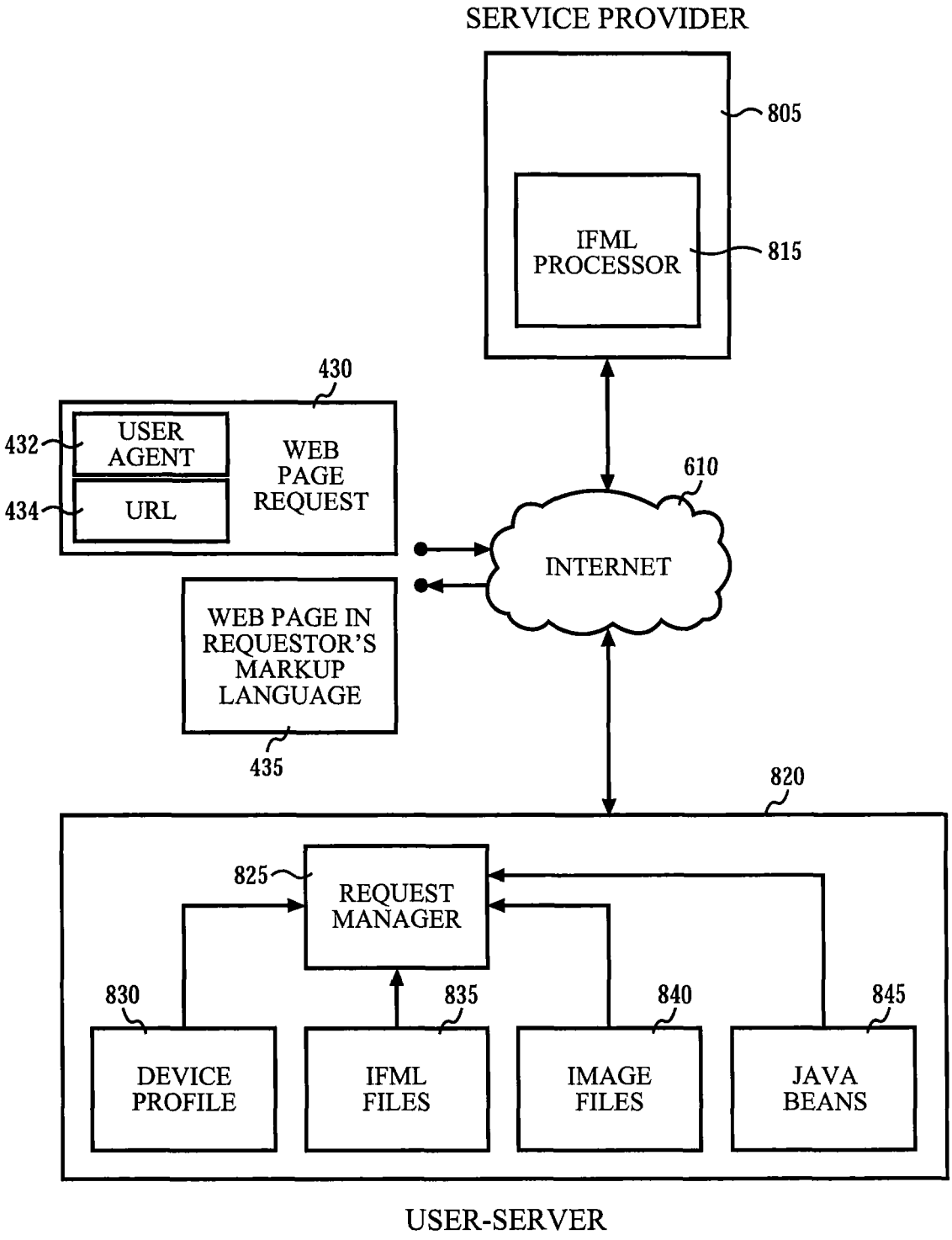

SERVICE PROVIDER
805
IFML PROCESSOR
815
430
USER AGENT
432
URL
434
WEB PAGE REQUEST
610
INTERNET
WEB PAGE IN REQUESTOR'S MARKUP LANGUAGE
435
820
825
REQUEST MANAGER
830
835
840
845
DEVICE PROFILE
IFML FILES
IMAGE FILES
JAVA BEANS
USER-SERVER

FIG. 8

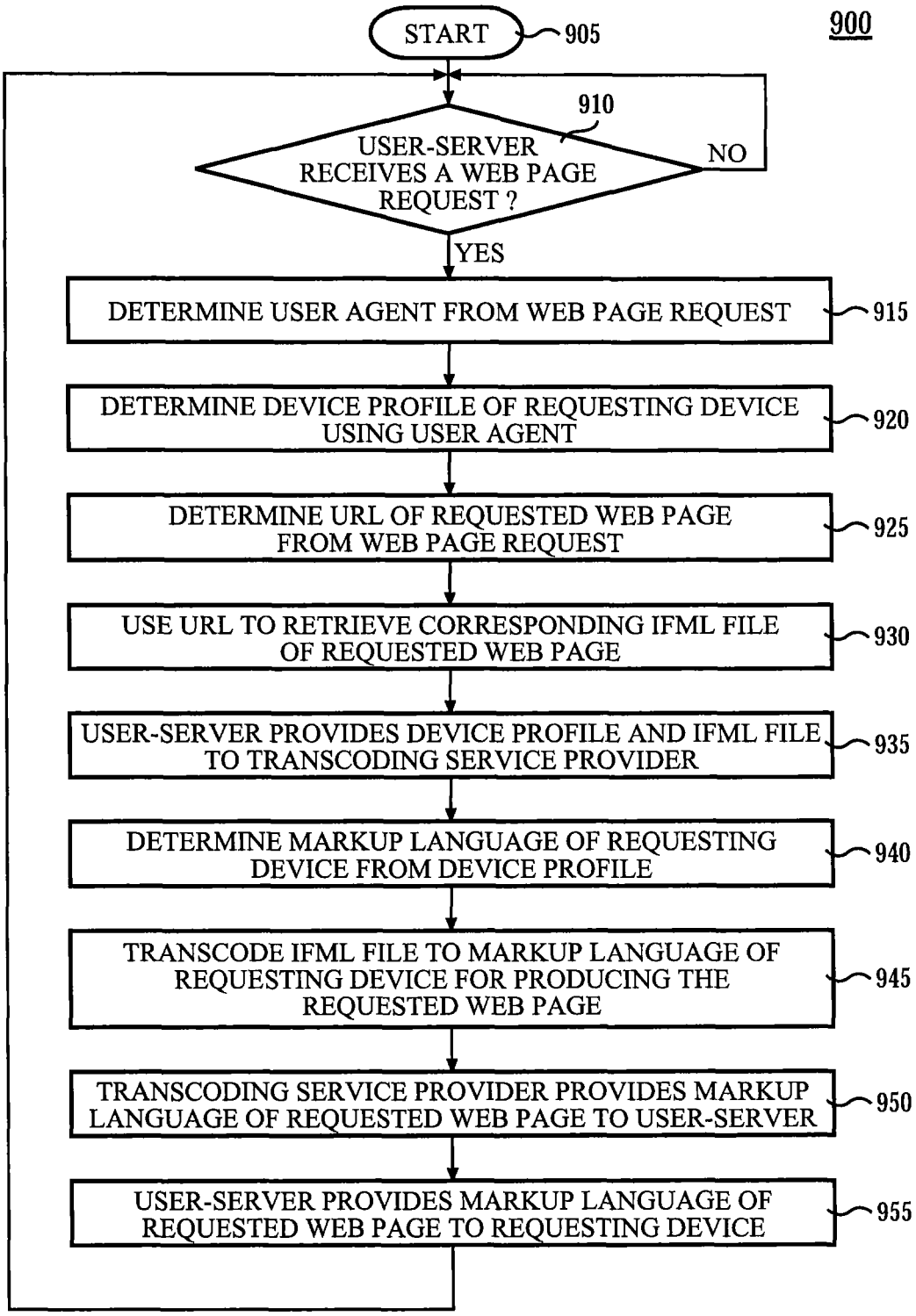

900
START
905
910
USER-SERVER RECEIVES A WEB PAGE REQUEST ?
NO
YES
DETERMINE USER AGENT FROM WEB PAGE REQUEST
915
DETERMINE DEVICE PROFILE OF REQUESTING DEVICE USING USER AGENT
920
DETERMINE URL OF REQUESTED WEB PAGE FROM WEB PAGE REQUEST
925
USE URL TO RETRIEVE CORRESPONDING IFML FILE OF REQUESTED WEB PAGE
930
USER-SERVER PROVIDES DEVICE PROFILE AND IFML FILE TO TRANSCODING SERVICE PROVIDER
935
DETERMINE MARKUP LANGUAGE OF REQUESTING DEVICE FROM DEVICE PROFILE
940
TRANSCODE IFML FILE TO MARKUP LANGUAGE OF REQUESTING DEVICE FOR PRODUCING THE REQUESTED WEB PAGE
945
TRANSCODING SERVICE PROVIDER PROVIDES MARKUP LANGUAGE OF REQUESTED WEB PAGE TO USER-SERVER
950
USER-SERVER PROVIDES MARKUP LANGUAGE OF REQUESTED WEB PAGE TO REQUESTING DEVICE
955

FIG. 9

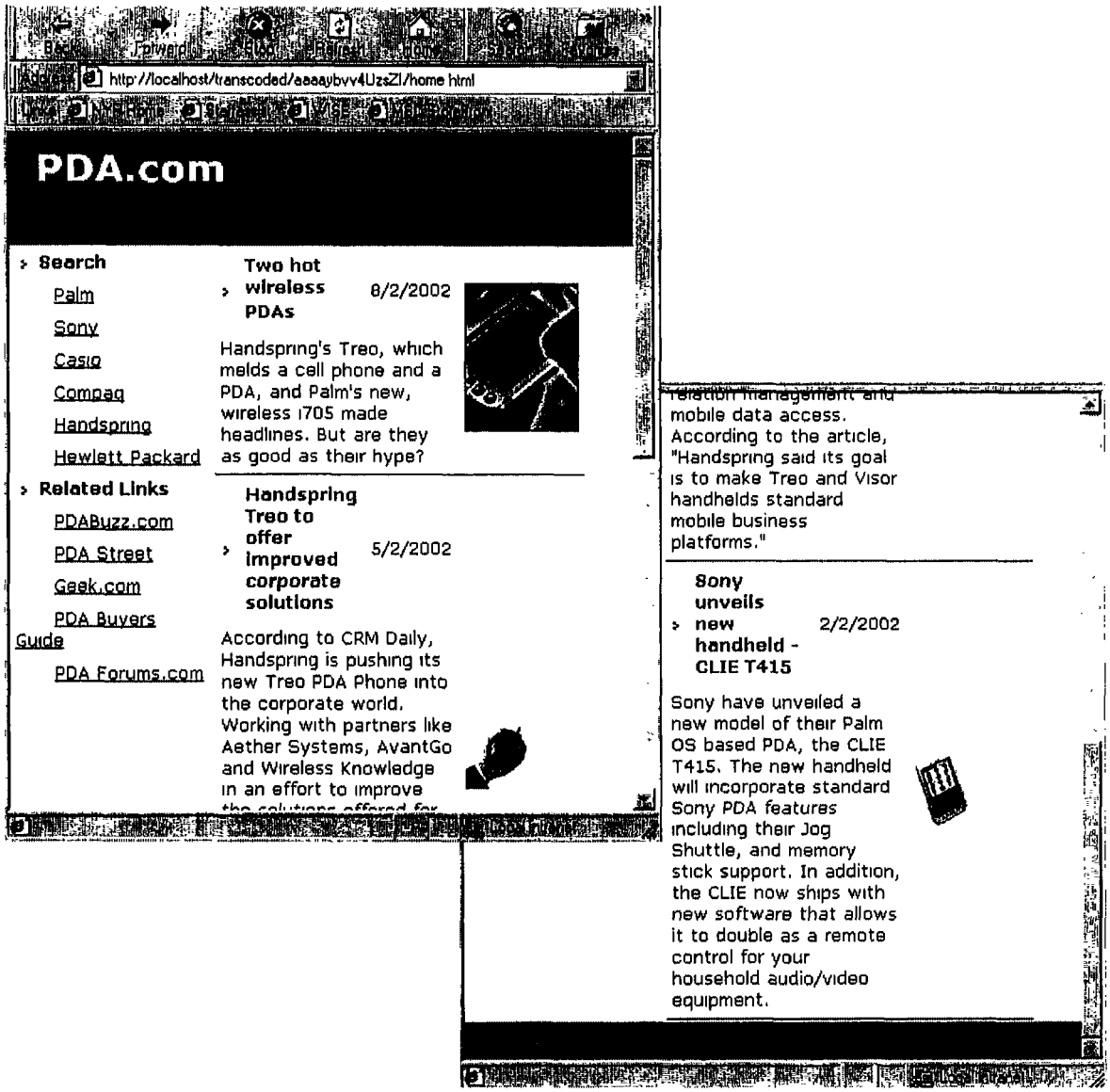

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PDA Forums.com
Two hot wireless PDAs 8/2/2002
Handspring's Treo, which melds a cell phone and a PDA, and Palm's new, wireless i705 made headlines. But are they as good as their hype?
Handspring Treo to offer improved corporate solutions 5/2/2002
According to CRM Daily, Handspring is pushing its new Treo PDA Phone into the corporate world. Working with partners like Aether Systems, AvantGo and Wireless Knowledge in an effort to improve
mobile data access. According to the article, "Handspring said its goal is to make Treo and Visor handhelds standard mobile business platforms."
Sony unveils new handheld - CLIE T415 2/2/2002
Sony have unveiled a new model of their Palm OS based PDA, the CLIE T415. The new handheld will incorporate standard Sony PDA features including their Jog Shuttle, and memory stick support. In addition, the CLIE now ships with new software that allows it to double as a remote control for your household audio/video equipment.

FIG. 10A

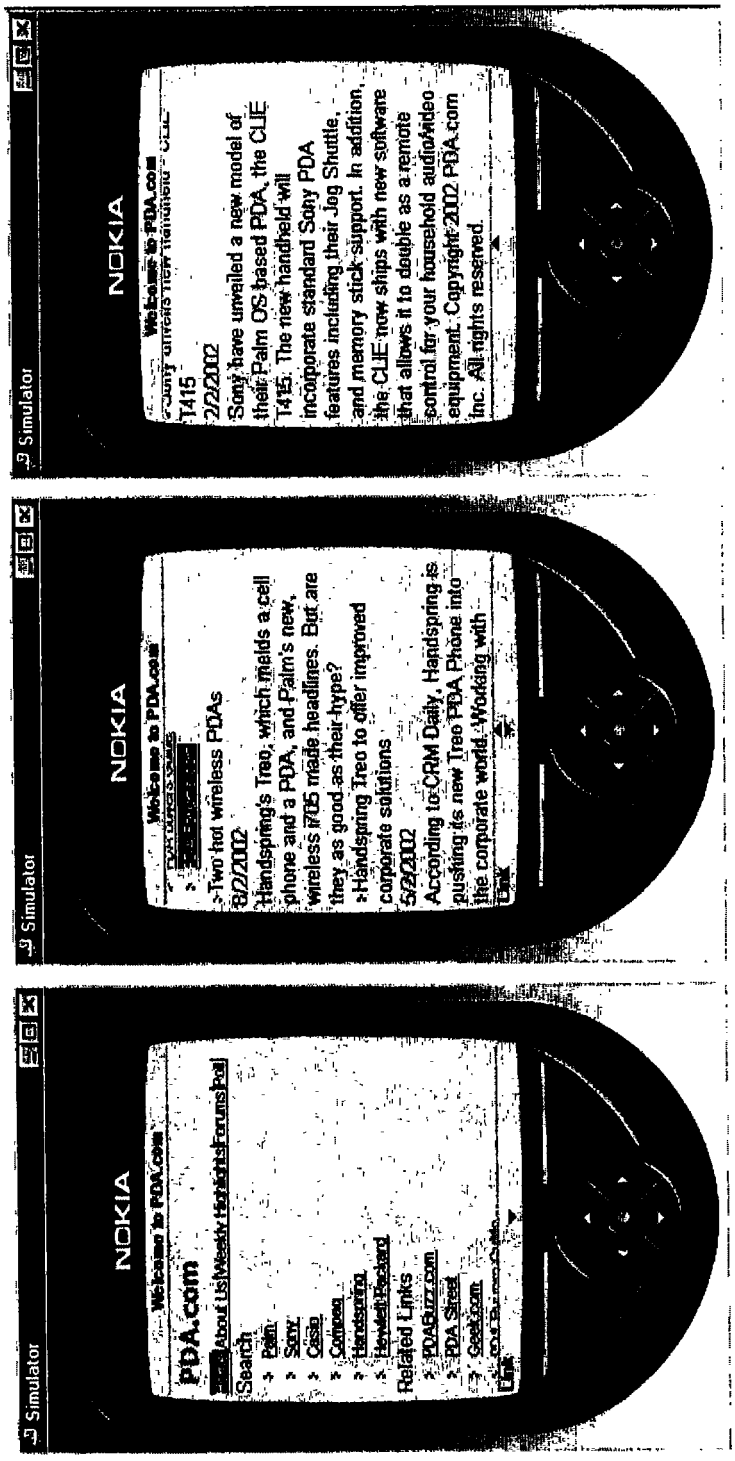

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T415
2/2/2002
Sony have unveiled a new model of their Palm OS based PDA, the CLIE T415. The new handheld will incorporate standard Sony PDA features including their Jog Shuttle, and memory stick support. In addition, the CLIE now ships with new software that allows it to double as a remote control for your household audio/video equipment. Copyright 2002 PDA.com Inc. All rights reserved.

FIG. 10B

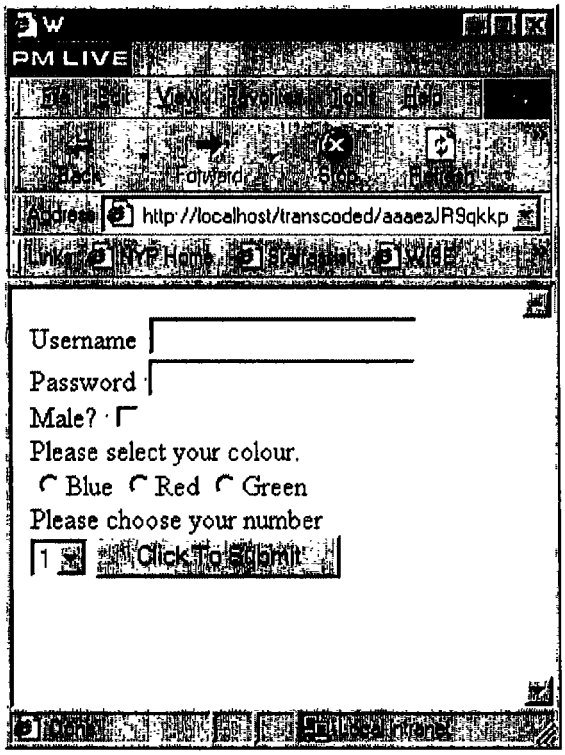


FIG. 10C

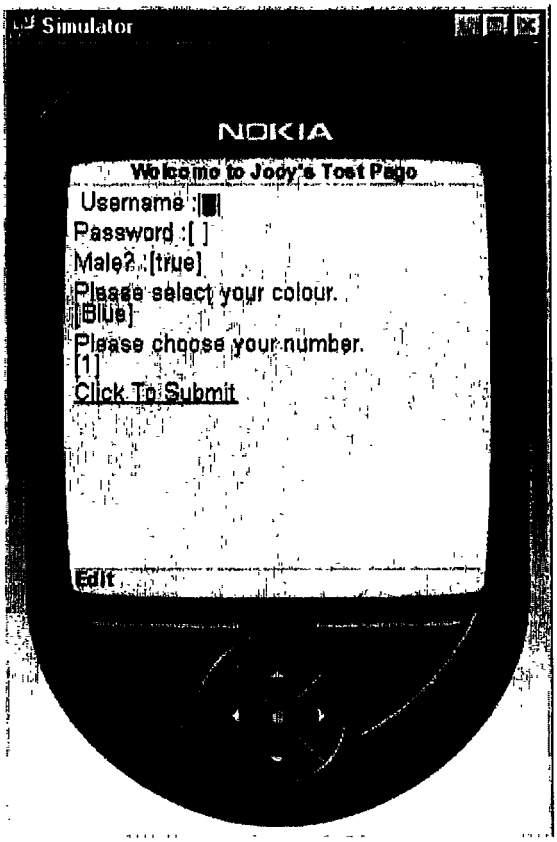


FIG. 10D

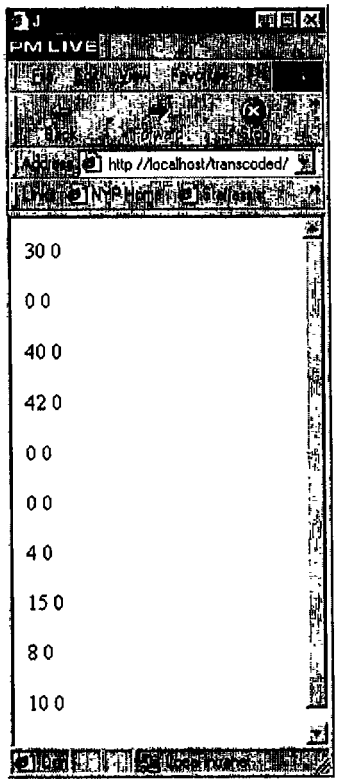


FIG. 10E

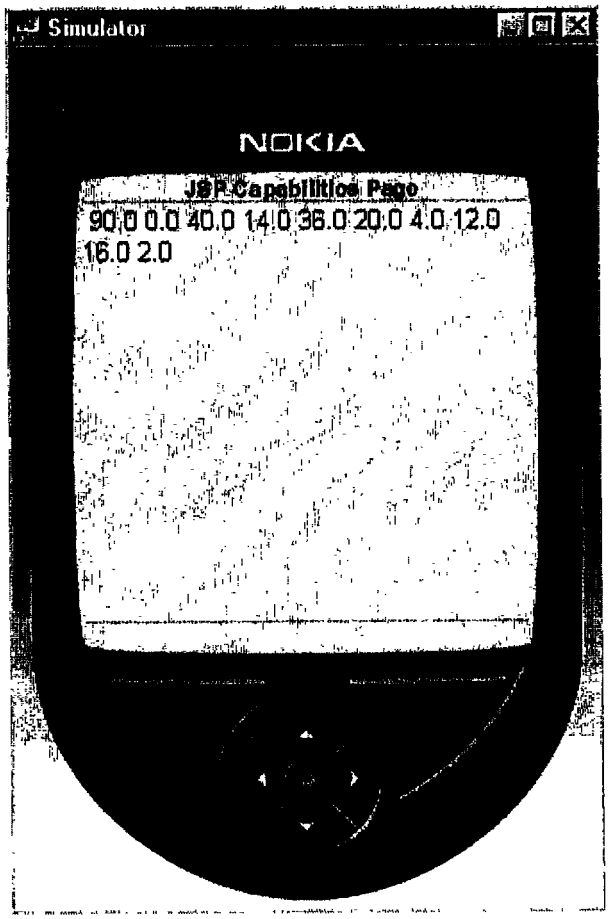


FIG. 10F