proposed amendment

REPLACEMENT SHEET
17 DEC 1997
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What is claimed is:

1. An elevator system having an elevator operation control unit for controlling the operation of an elevator car and an image display unit disposed inside the car, the elevator system comprising image memory means having recorded therein specified images associated with the operation of the elevator, and control means operable based on elevator operation data obtained from the operation control unit to read from the image memory means an image signal of a recording area corresponding to the data and feed the image signal to the image display unit.

2. An elevator system having an elevator operation control unit for controlling the upward or downward movement of an elevator car and an image display unit provided inside the car, the elevator system comprising an image reproduction unit for feeding a main image signal for forming a background image to the image display unit, a superimposition image production circuit for producing a subimage signal for forming a floor indicating image based on a floor signal from the elevator operation control unit, and an image composition unit for combining the main image signal and the subimage signal into a composite image signal to superimpose the floor

REPLACEMENT SHEET
17 DEC 1997

indicating image on the background image and feeding the composite image signal to the image display unit.

3. An elevator system ~~as defined in~~ according to claim 2 wherein the subimage signal contains an image indicating the direction of movement of the car or like operating state of the elevator along with the floor indicating image.

4. An elevator system ~~as defined claim 2~~ according to any one of the preceeding claims wherein the image display unit has a display screen positioned inside the car above entrance-exit doors in a slating posture to oppose the eyes of passengers.

5. An elevator system ~~having an image display unit provided inside an elevator car~~ according to any one of the preceeding claims wherein, the car ~~being~~ is provided with at least one slanting wall joined to a side of a horizontal ceiling and disposed in an inclined posture to oppose the eyes of passengers, the image display unit comprising at least one display screen installed in at least one of the slanting walls for images to be projected thereon from behind, and further including an image projector installed on the ceiling and a light reflector for reflecting an image projected thereon from the projector and guiding the image to the rear side of ~~the~~ each display screen.

~~6. An elevator system as defined in claim 5~~ according to any one of the preceeding claims wherein the image display unit has ~~connected~~ thereto ~~a circuit~~ for showing a floor indicating image on the

REPLACEMENT SHEET
17 DEC

~~display screen based on a floor signal from an~~ elevator operation control unit.

7. An elevator system having an image display unit provided inside an elevator car, the car being provided with a plurality of slanting walls each joined to a side of a horizontal ceiling and disposed in an inclined posture to be opposed to the eyes of passengers, the image display unit comprising a plurality of display screens installed in the respective slanting walls for images to be projected thereon from behind, a single image projector installed on the ceiling and a light distributor for dividing the light of an image projected thereon from the projector and guiding the image to the rear side of each of the display screens.

8. An elevator system as defined in claim 7 wherein the image display unit has connected thereto a circuit for showing a floor indicating image on each display screen based on a floor signal from an elevator ~~operation control unit.~~

6 9. An elevator system according to claim 1, wherein ~~having an elevator operation control unit for controlling the upward~~ the image memory means comprises or ~~downward movement of an elevator car and an image display unit provided inside the car, the elevator~~ system comprising an image source storage unit having

REPLACEMENT SHEET
17 DEC 1997

recorded therein an image corresponding to the position of the car in upward or downward movement and a video memory capable of storing a plurality of fields of image signal to be reproduced from the image source storage unit, the control means comprise a control circuit for controlling signal writing to and reading from the video memory and feeding the read image signal to the image display unit, the control circuit comprising means for obtaining data as to the position of the car based on a position signal from the elevator operation control unit, means for reproducing from the image source storage unit an image signal of a recording area corresponding to the car position based on the position data obtained and writing the image signal to the video memory, and means for reading the signal from the video memory to prepare an image signal for one picture and feeding the image signal to the image display unit.

7 ~~10~~. An elevator system ~~as defined in~~ according to claim 6 wherein the image source storage unit has recorded therein a plurality of still pictures assigned respectively to floors where the car stops, and at least two of the still pictures assigned to two floors above and below the position of the car are written to the video memory and are displayed on the display unit upon change-over in corresponding relation to the

REPLACEMENT SHEET
17 DEC 1997

position of the car.

8 ~~11~~. An elevator system ~~as defined in~~ according to claim 7 ~~10~~ wherein the two still pictures written to the video memory are combined into a composite image and the composite image is shown on the display unit during movement of the car.

9 ~~12~~. An elevator system ~~as defined in~~ according to claim 6 ~~9~~ wherein the image source storage unit has recorded therein different kinds of animations assigned respectively to floors where the car stops, and at least two of the animations assigned to two floors above and below the position of the car are written to the video memory only for a plurality of fields including the field of current time and are shown on the display unit upon change-over in corresponding relation to the position of the car and the current time.

10 ~~13~~. An elevator system ~~as defined in~~ according to claim 9 ~~12~~ wherein the two animations written to the video memory are combined into a composite image and the composite image is shown on the display unit during movement of the car.

11 ~~14~~. An elevator system according to claim 1 ~~having an elevator operation control unit for controlling the upward or downward movement of an elevator car and an image display unit provided inside the car, the elevator~~

REPLACEMENT SHEET
17 DEC 1997

wherein the image memory means comprises
system ~~comprising~~ an image source storage unit having recorded therein images representing the opening-closing movement of doors of the car and a video memory capable of storing an image signal to be reproduced from the image source storage unit, the control means comprise a control circuit for controlling signal writing to and reading from the video memroy and feeding the read image signal to the image display unit, the control circuit comprising means for reproducing from the image source storage unit a recorded image signal ~~of a recording area based on~~ corresponding to a door opening-closing signal obtained from the elevator operation control unit ~~which recording area corresponds to the opening-closing signal~~ and writing the reproduced image signal to the video memory, and means for reading the signal from the video memory to prepare an image signal for one picture and feeding the signal to the image display unit.

12 ~~15~~. An elevator system ~~as defined in~~ according to claim 11 ~~14~~ wherein the image source storage unit has recorded therein a first image signal representing the door opening-closing operation of the car and a second image signal for displaying a background for fully open doors, and the control circuit has means for combining the first and second image signals into a composite image signal on the video memory based on the

REPLACEMENT SHEET
17 DEC 1997

door opening-closing signal obtained from the elevator operation control unit

according to claim 1 wherein

13 ~~16~~. An elevator system ~~having an elevator operation control unit for controlling the upward or downward movement of an elevator car and an image display unit provided inside the car, the elevator system comprising~~ a coded data storage unit wherein an image of a subject approaching or moving away at a constant speed is recorded as coded for every frame number, a coded data memory for storing the data to be read from the storage unit, a decoding circuit for decoding the data read from the coded data memory and a signal processing circuit for preparing an image signal for one picture from a signal output from the decoding circuit, and a control circuit for controlling data reading from the coded data storage unit and data reading from the coded data memory, the control circuit comprising means for determining a frame number in accordance with the velocity of movement of the car 6 based on an elevator velocity signal obtained from the elevator operation control unit, and means for reading the data of the frame number determined from the coded data storage unit and writing the data to the coded data memory.

the image memory means comprise

according to any one of the preceding claims further including:

14 ~~17~~. An elevator system ~~having an image display~~

REPLACEMENT SHEET
17 DEC 1997

~~unit inside an elevator car and comprising:~~

an emergency detector for detecting an emergency when the operation of the elevator has developed the emergency,

~~a usual~~ an image production unit for feeding a first image signal to the image display unit while the elevator is in normal operation,

an emergency image production unit for feeding a second image signal as to the emergency to the image display unit in the event of the emergency,

a change-over unit for connecting an output terminal of the usual image production unit or the emergency image production unit alternatively to an input terminal of the image display unit upon a change-over, and

a main control circuit for controlling the change-over operation of the change-over unit.

15 ~~16~~. An elevator system as defined in claim 14 ~~17~~ wherein the emergency image production unit is provided in a control center for monitoring the operating state of the elevator and comprises a unit for picking up an image of an operation control attendant, the control center having a voice input unit disposed therein for inputting the voice of the attendant, the elevator car having a voice output unit disposed

REPLACEMENT SHEET
17 DEC 1997

therein along with the image display unit, so that an image signal from the image pickup unit is fed to the image display unit and a voice signal from the voice input unit is fed to the voice output unit at the same time.