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PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

112960 U.S. PTO
60/656884
030105

19201 U.S. PTO
030105

INVENTOR(S)

Given Name (first and middle [if any])	Family Name or Surname	Residence (City and either State or Foreign Country)
Nissi	VILCOVSKI	Tel Aviv, Israel

☐ *Additional inventors are being named on the ^ separately numbered sheets attached hereto*

TITLE OF THE INVENTION (280 characters max)

Memorable Interactive Mirror

Direct all correspondence to: **CORRESPONDENCE ADDRESS**

☒ Customer Number **49443**

OR *Type Customer Number here*

☒	Firm *or* Individual Name	**Pearl Cohen Zedek Latzer, LLP**			
Address	**10 Rockefeller Plaza**				
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City	**New York**	State	**New York**	ZIP	**10020**
Country	**USA**	Telephone	**212-632-3480**	Fax	**212-632-3489**

ENCLOSED APPLICATION PARTS *(check all that apply)*

☒ Specification *Number of Pages* 12 ☐ CD(s), Number

☒ Drawing(s) *Number of Sheets* 34 ☒ Other (specify) postcard

☐ Application Data Sheet. See 37 CFR 1.76

Application Size Fee: If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT *(check one)*

☒ Applicant claims small entity status. See 37 CFR 1.27.

☐ A check or money order is enclosed to cover the filing fees

☒ The Commissioner is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number: 50-3355

FILING FEE AMOUNT ($): 100.00

☐ Payment by credit card. Form PTO-2038 is attached.

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

☒ No.

☐ Yes, the name of the U.S. Government agency and the Government contract number are:

Respectfully submitted,

Date 01 / Mar / 2005

SIGNATURE

REGISTRATION NO. *(if appropriate)* 37,912

TYPED or PRINTED NAME Caleb Pollack

TELEPHONE 212-632-3480

Docket Number: P-7752-USP

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

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030105

1328 U.S. PTO

Memorable Interactive Mirror

Abstract

A special "Memorable smart Interactive Mirror, that allow people to see there previous views in front of it.

The system can recognize the people in various ways, and it includes Software that "memories" (store) the history of each and every person.
A person stands in front of the mirror, and he can choose what to be capture into the mirror memory , or he can program it for automation recording.
After the images\voices are capture , he can replay it \part of it , any time .

The system can be stand alone or in a Network of devices.
It can be in any size, and shape, and from the outside it looks like a mirror.

It possible to apply a module that have the ability also to simulate a virtual fittings or virtual body changes to the user.

Inventor – Nissi Vilcovsky (TLV Israel)
Assignee – Nissi Vilcovsky (TLV Israel)

Samsung/Google, EX1025, p. 2

The System Components and description

The System is assembly of the following components

The Main unit – Fig main1

A Mirror LCD TV or other (Appendix 1) can be disposed at home, shops , showroom, exhibition or any point of sale, or in any public place (appendix 2) , The Mirror LCD (appendix 1) connected to an unseen or seen camera or cameras (Appendix 3) , In order to record whatever one choose .

All the images are stored in the unit , and can be shown on the unit in any time as a replay.

This unit is including Recognition system, and software.

Recognition System

A recognition system that is connected to the main unit \or in the area of the device (from appendix 1) preferably Biometric (Appendix 4) recognize the customer \owner.

Software and Processing unit

Software that manage the recognition, the recording process ,and the database.
It is saving recording and memorize each customer \person on a file \files (appendix 5)
It is possible to modify the amount of saved data and what and when we want to record.
And it can organize the data in deferent ways (albums, movies, etc)

Control

Control \ Remote control to stop/reply/pause/play at any time with a sensor or remote control (appendix 7)

Samsung/Google, EX1025, p. 3

General

The System can be stand alone or connected to a network (appendix 8) ,and it gives the possibility to send an Email or SMS with any captured info (photos,movies,voice) (of course have network card ,and video in out , and all other relevant connections) Browse the Internet.

It can also give you reminds on screen on a certain hours \days.

Also it gives the possibility to download it to a Personal memory card or other media (appendix 9) or to Print it .

The recognition system can provide access to each person data , in order to allow maximum privacy.

Also it is possible to define, family areas, where a family \ member of the family will store there photo \ movies\ voice history.

The system can be also without any recognition, it can be just a recordable by demand.

The system is expandable, and you can had more devices (appendix 9) in order to expand the storage, or to provide more functions.

The system can be portable, or not portable.

It can show the user the reply in the real size, or in deferent size.

Samsung/Google, EX1025, p. 4

Appendix 1 – The Devices

Mirror LCD (Example – Phillips) in any size with a Video Camera \cameras
Mirror LCD Combined with See-Through Mirrors with a Camera \cameras
LCD Screen in any size with camera \ cameras
Mirror LCD TV in any size with a Video Camera \cameras
Mirror LCD TV Combined with See-Through Mirrors with a Camera \cameras
Mirror LCD TV Combined with Mirrors with a Camera \cameras
Mirror LCD with CCD capacities
Dot Matrix led screens (example - Para light)
The following screens can contain also Microphone, Radio , TV Tuner
All this devices can combine Touch screen components or parts
All the devices can contain speakers
All Devices can be combination of the technologies (can combine Mirrors LCD TV, and Mirror etc)

More info about Mirror LCD \Mirror TV :
http://www.research.philips.com/technologies/display/mrrordisp/mirrortv/

It can be also Plasma screens , Plasma Mirror screens , Plasma tv's ,in any of this variation
The Display can be based on the following technologies :
OLED,NED PDP ,CRT ,DLP ,SED ,Tablet screens,Flatpanel SED , Organic EL,Paperlike screen, A 3D Holograma , , 3D Display (Philips 3-D research ,seereal technology),TFT ,OTFT
HDTV, Rear projection TV.

Samsung/Google, EX1025, p. 5

Appendix 2 – Where the system can be applied

At home
A Shop
A Shop that is part of chain
Point of sale
Show room
Concept Showroom
Exhibition
Presentation
Hotels\Hotel chains
Public areas like Airports,Shoping malls , streets as interactive advertisement
Any shop that people need a mirror in order to look at there fitting tries.
Fashion shops, Eyewear shops , Cosmetic shops and point of sale , shoe shop etc
Anywhere people use mirrors

Samsung/Google, EX1025, p. 6

Appendix 3 – The Cameras

A camera – means any kind of Video camera , or a set of cameras or stereo cameras that will be connected directly or indirectly to the processing unit (In the main or in the Replay unit)
A camera or set of cameras that is on top\side\bottom of the device (from appendix 1)
A camera or set of cameras that is embedded or inside the device (from appendix 1)
A camera or set of Cameras that are in the area of the device (from appendix 1)
A set of cameras that is independed from the device ,
A camera or set of cameras that is on top\side\buttom of the device (from appendix 1) combine with external cameras
A camera or set of cameras that is embedded or inside the device (from appendix 1) combine with external cameras

The cameras will capture the user in front of the device (appendix 1) .
It can also capture the image of the mirror when someone stands in front of it , in order to replay it later.

The cameras can observe the user from the same optical axis as used by the display (device -appendix 1)

The cameras can have the ability to move.
It can be 3D Cameras , Stereo cameras ,

Samsung/Google, EX1025, p. 7

Appendix 4 – Recognition

Face Biometric \Non Biometric recognition – FIG 2A
Hand Biometric \Non Biometric recognition – FIG 2B
Finger print Biometric \Non Biometric recognition – FIG 2C
Voice recognition – FIG 2D
Voice recognition input of code- FIG 2D
Credit Card- FIG 2E
Personal pin or other alphanumeric recognition that will click in the system
Customer Card or smart card or chip that the brand will provide - FIG 2F
Any "customer club" card or smart card or chip - FIG 2F
Eye \Eye Pupil Biometric \Non Biometric recognition 2H

Samsung/Google, EX1025, p. 8

Appendix 5 – Software system

A processing unit with Software (a group of applications) that will organize the data of the owner\users
It can be embedded or connected directly, or connected by any kind of network to a central system.
The system will process the recognition (with a device from appendix 4) ,then it will record the images of the owner \ customer
It will process the viewing of the stored images, in the house or in other (appendix 2)
It will process the communication and request from out of the place (appendix 2)
It is possible to modify the amount of saved data that we want for every client
It is possible to define to delete the history after a time period
If the customer connects to the system, he can modify this parameters as well
It is possible to define whether we want to save snapshots, photos, movies , voice .
It have calendar where you can store info and reminders alarms
If the is no recognition system, it will handle the recording and replay of the stored data , on demand
It is possible to combine all the "PALM Pilot" functions in the system , and to enable each user to use them separately.
The system can have also a video capacity, the customer can record directly from the tv (if embedded)
The system can have also the ability to record and play music
It can also estimates of the head or body position of users ,to the application program.
It can also have a tracking system , that can allow the cameras to move whenever the user moves.(to follow his pattern)
It is possible to program when to capture or replay for automation
It can have the ability also to simulate a virtual images of the user , using his captured face\body details ,with other images
It is possible to combined a manipulation system that will change also colors ,shapes etc.
It can weight the user (if weight detectors applied) and store the info

Samsung/Google, EX1025, p. 9

Appendix 7 - Ways to control the replay

With on side or panel buttons - FIG 7A
With Keyboards or mouse that connected \or wireless – FIG 7B
With remote control \ wireless or that connected to the system –FIG 7C
Voice commands Or recognition – FIG 7D
Movement, with movement sensors – FIG 7E
Movement with weight sensors – FIG 7F
Face related movement with face recognition –FIG 7G
Touch screens with or with out external device – FIG7H

Samsung/Google, EX1025, p. 10

Appendix 8 – Network

LAN,
Wireless WAN
WAN
VPN -
Wireless VPN
Wireless VPN that uses satellite connection, or radio connection or RF
Any Wireless technology
Public Networks
Internet
Private commercial networks
Blue tooth
Satellite Network
Modems
Dial in system – any kind

Appendix 9 – Devices that the customer can connect

Memory Card
Wireless personal device
A Secondary Hard Disk (or more the one)
Personal computer
Portable personal computer
Any kind of magneto optic device
CDR, CDRW, DVD, DVDRW
Any kind of external device that can connect and download

This devices can come also as part of the system

Appendix 10 – Replay unit -The devices that can show the previous fittings

Mirror TV in any size with a Camera \cameras
Mirror LCD in any size with a Camera \cameras
LCD Screen in any size with camera \ cameras
Paintable LCD in any size with Camera \ Cameras
TV in any size with Camera \Cameras
Mirror LCD in any size without a Camera \cameras
LCD Screen in any size without camera \ cameras
Paintable LCD in any size without Camera \ Cameras
TV in any size without Camera \Cameras

A Projector from any king that project to any kind of surfate \ wall
LCD with CCD capacities

It can be also Plasma screens , Plasma Mirror screens , Plasma tv's ,in any of this variation
The Display can be based on the following technologies :
OLED,NED PDP ,CRT ,DLP ,SED ,Tablet screens,Flatpanel SED , Organic EL,Paperlike screen, A 3D Holograma , 3D Display (Philips 3-D research ,seereal technology),TFT ,OTFT
HDTV

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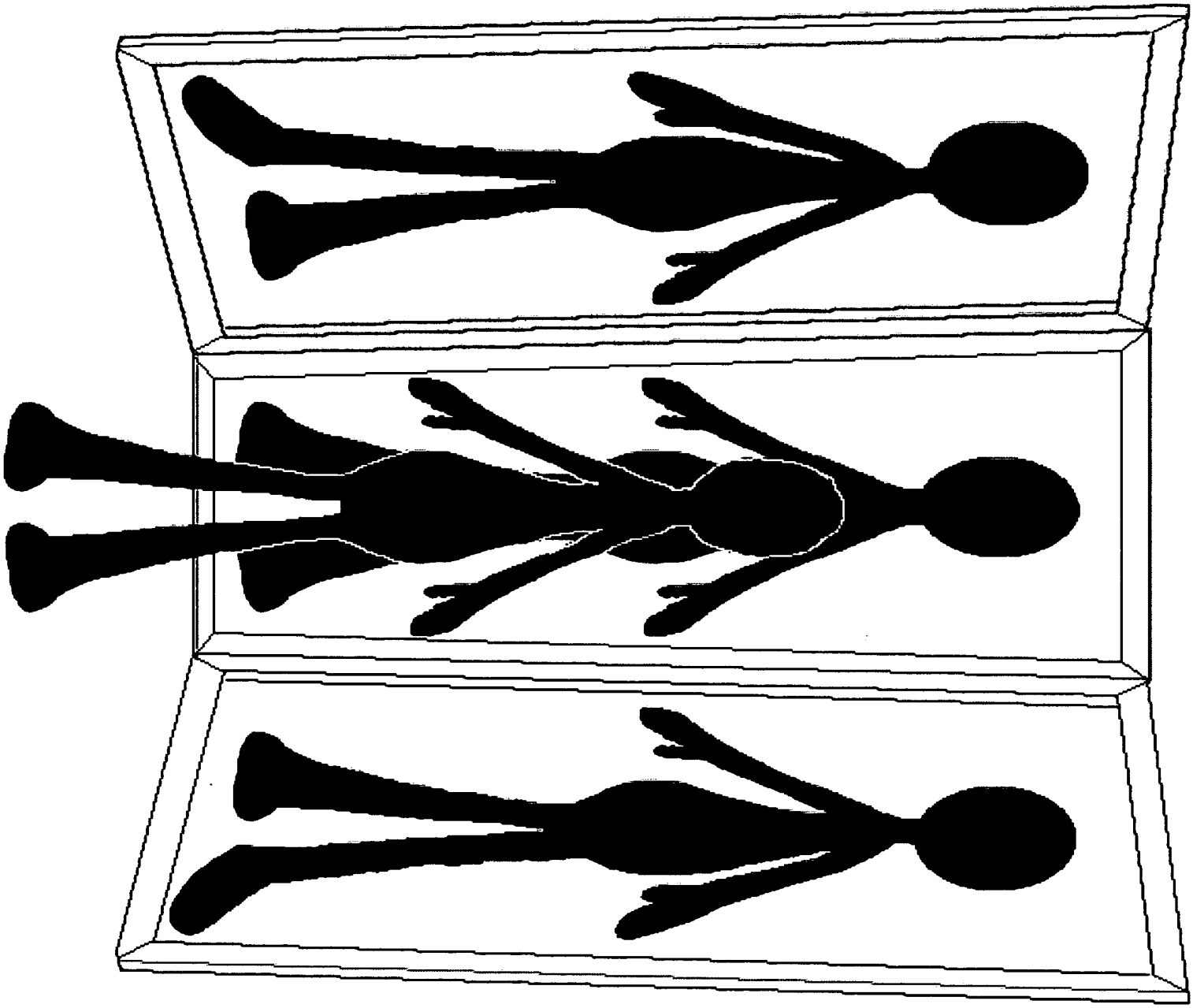


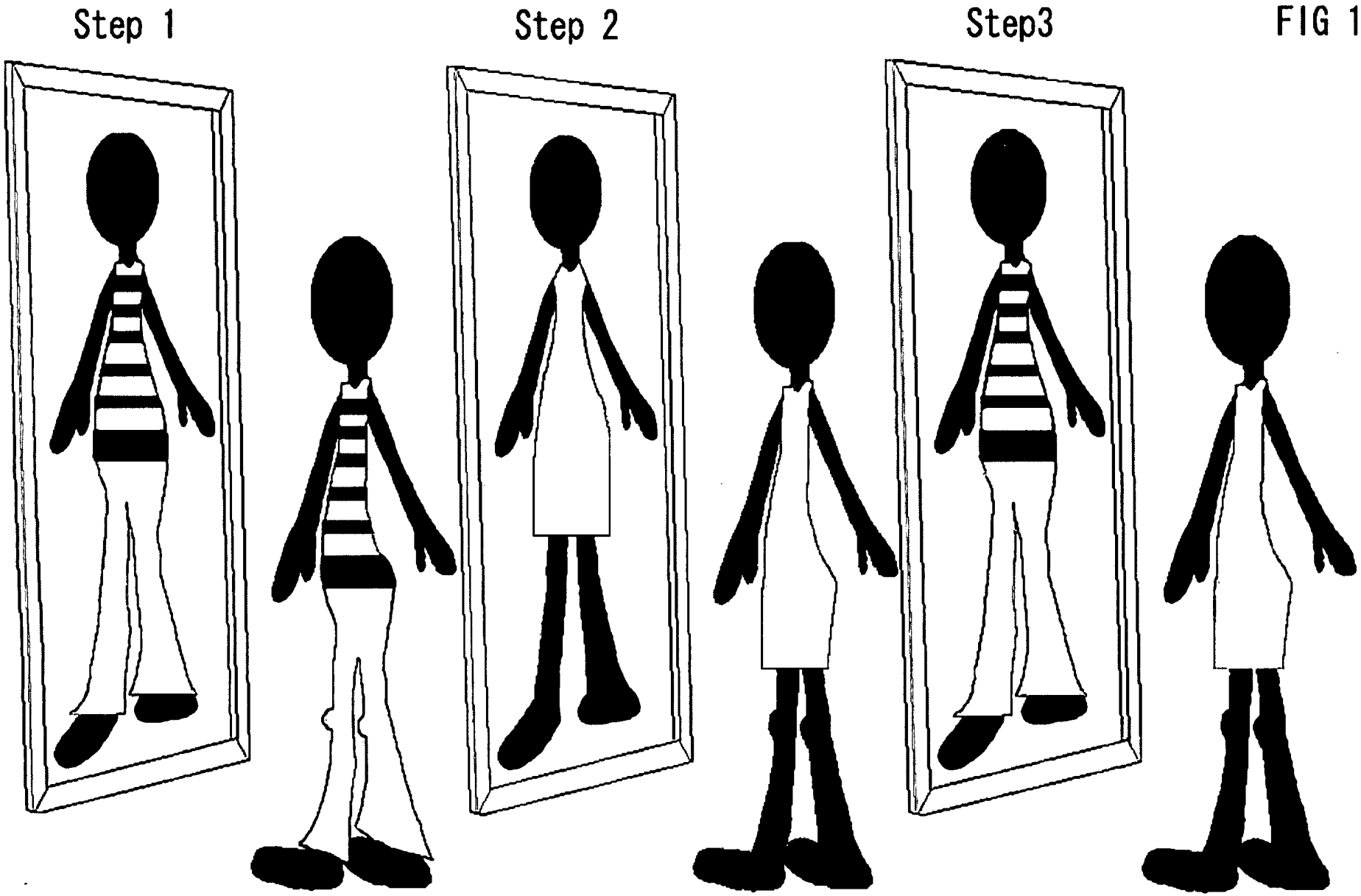


FIG 1

Samsung/Google, EX1025, p. 16

FIG 1A

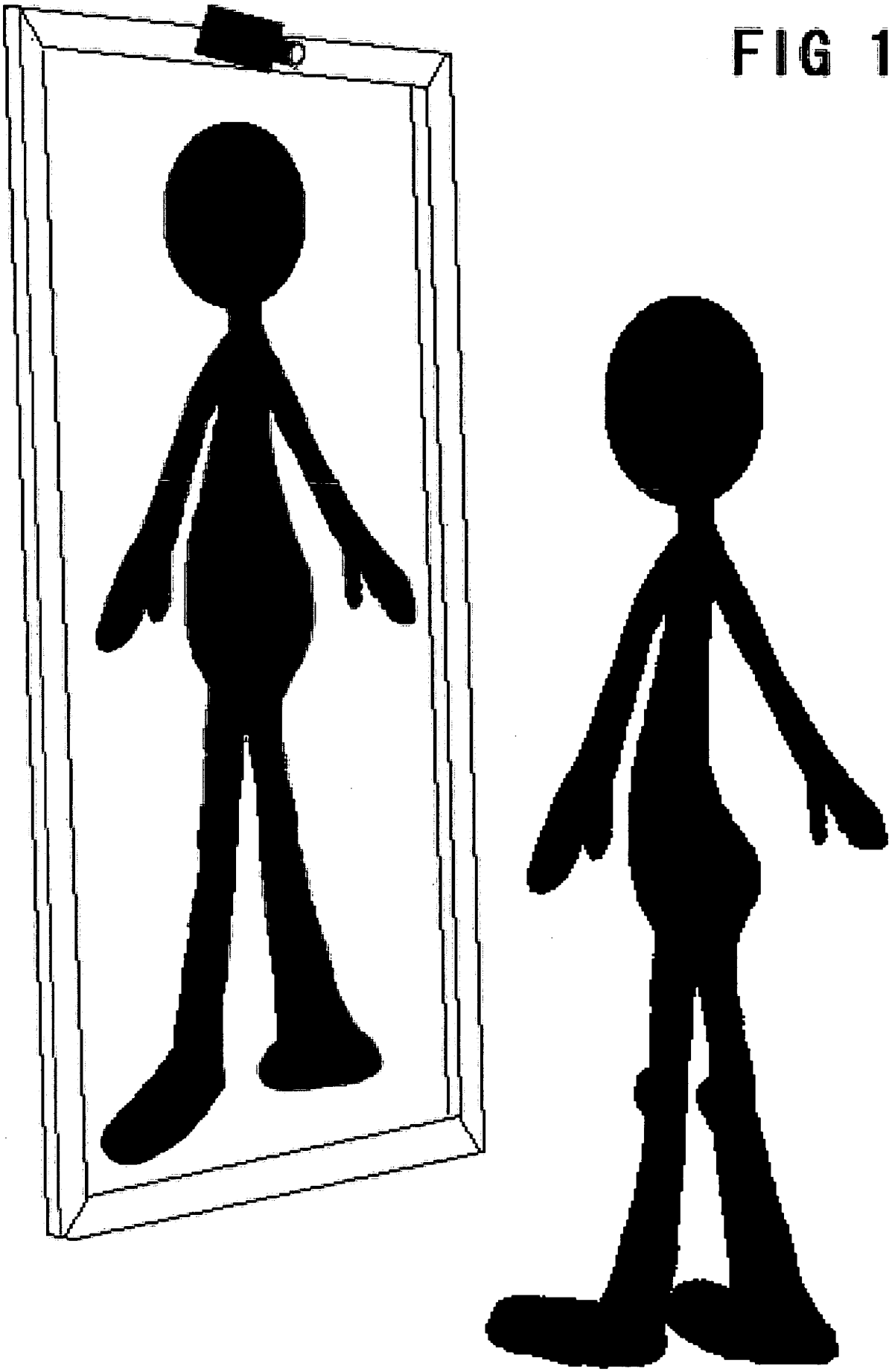


FIG 1B

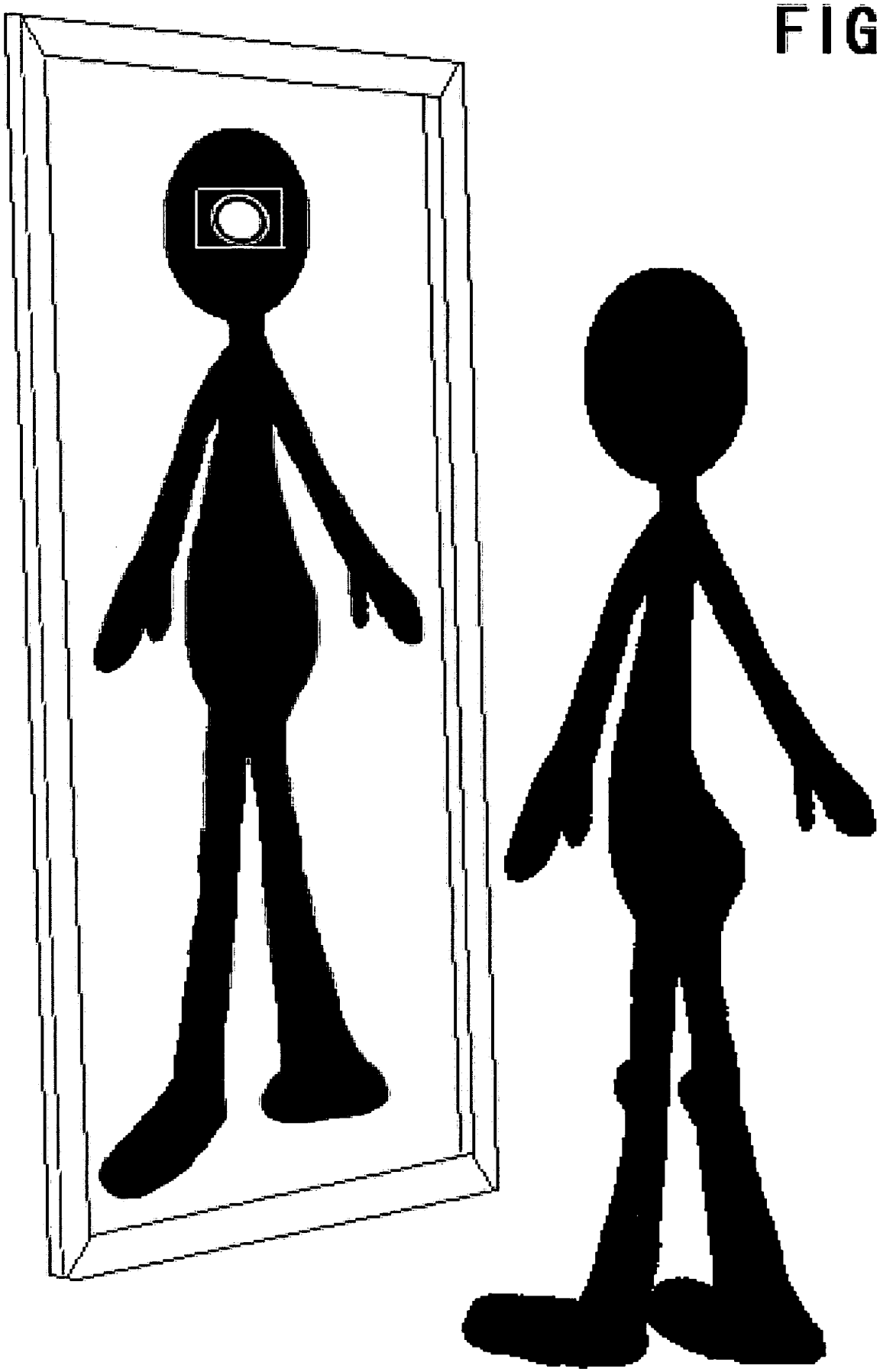


FIG 1C

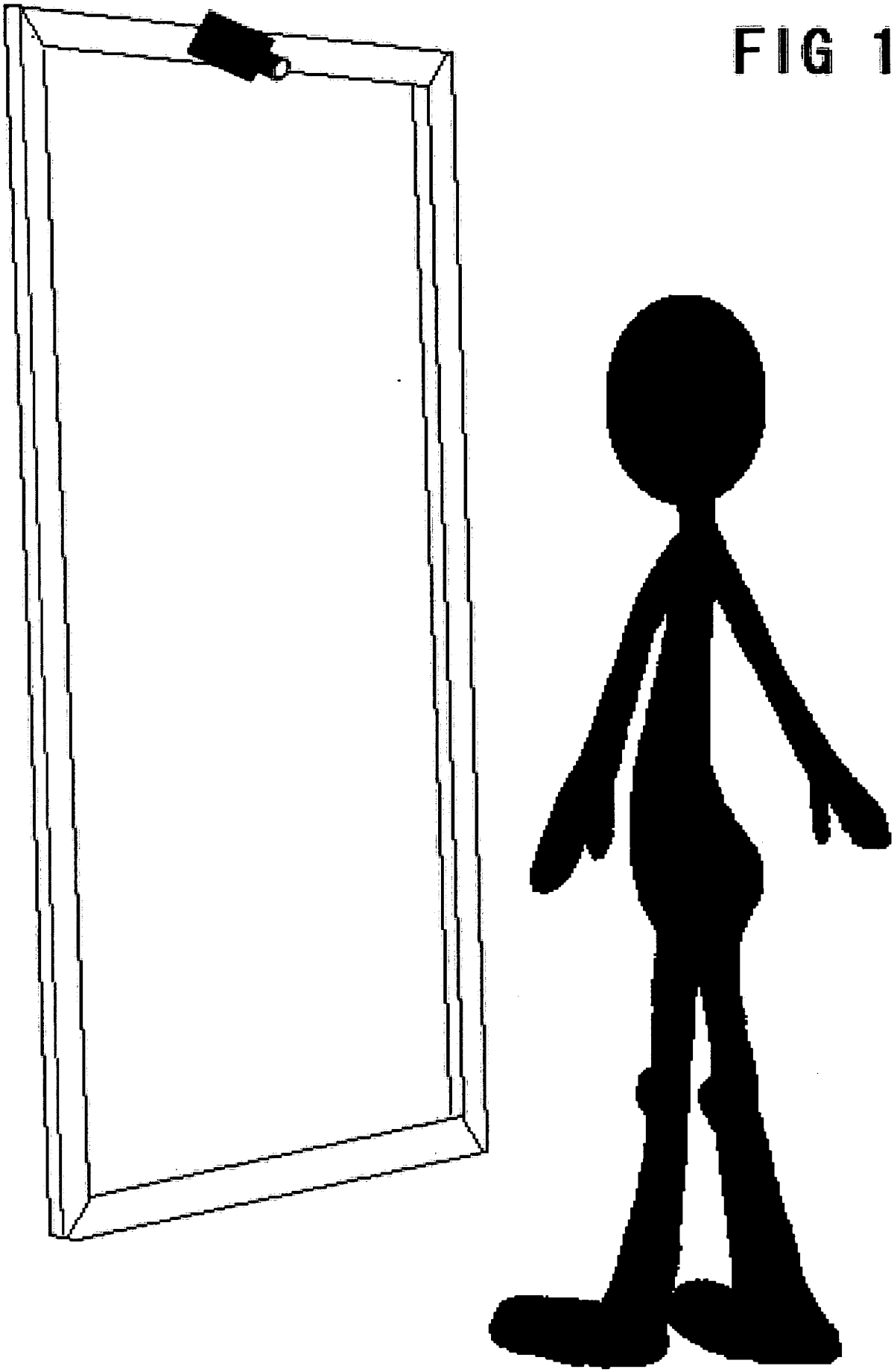


FIG 1E

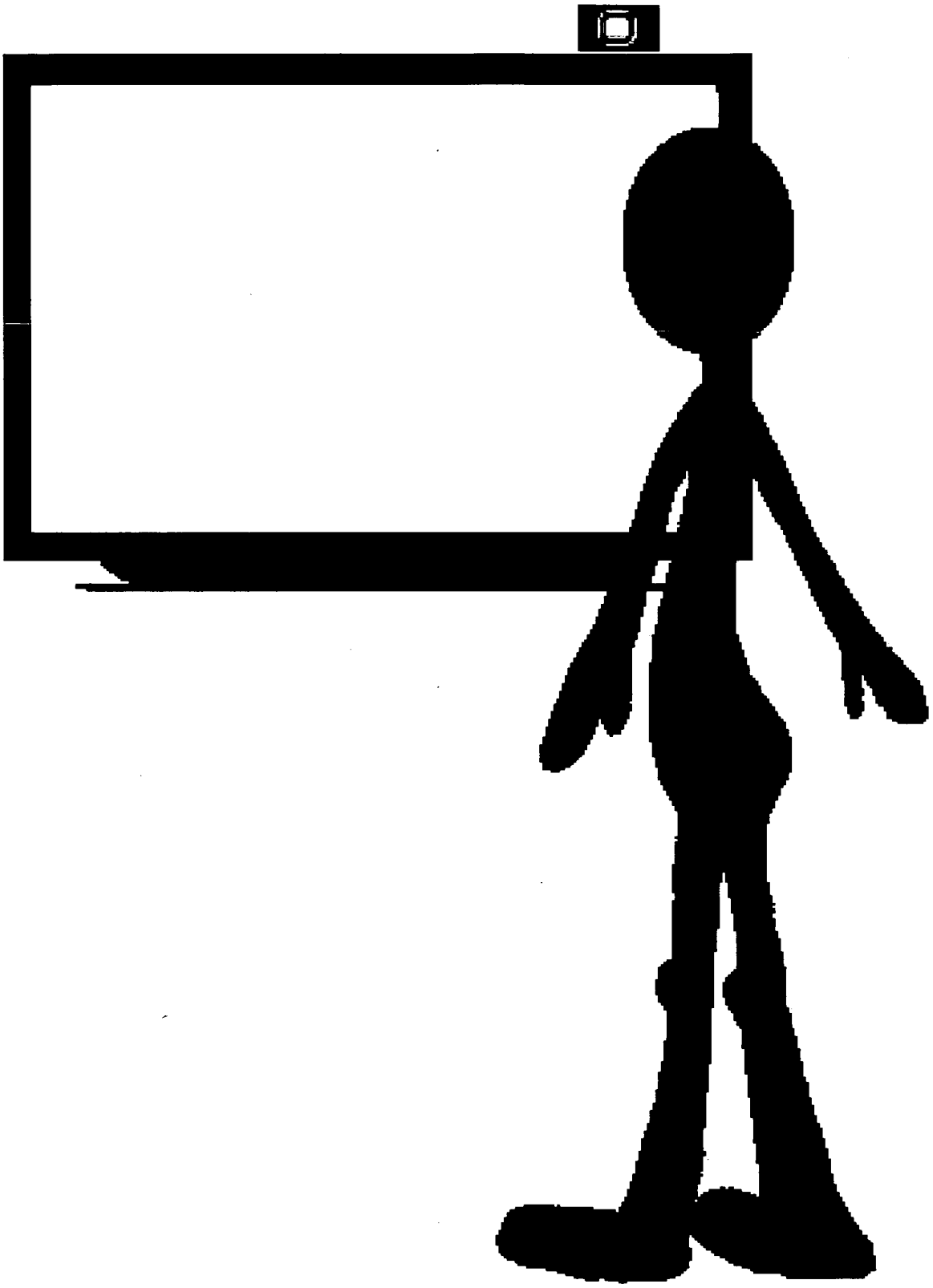
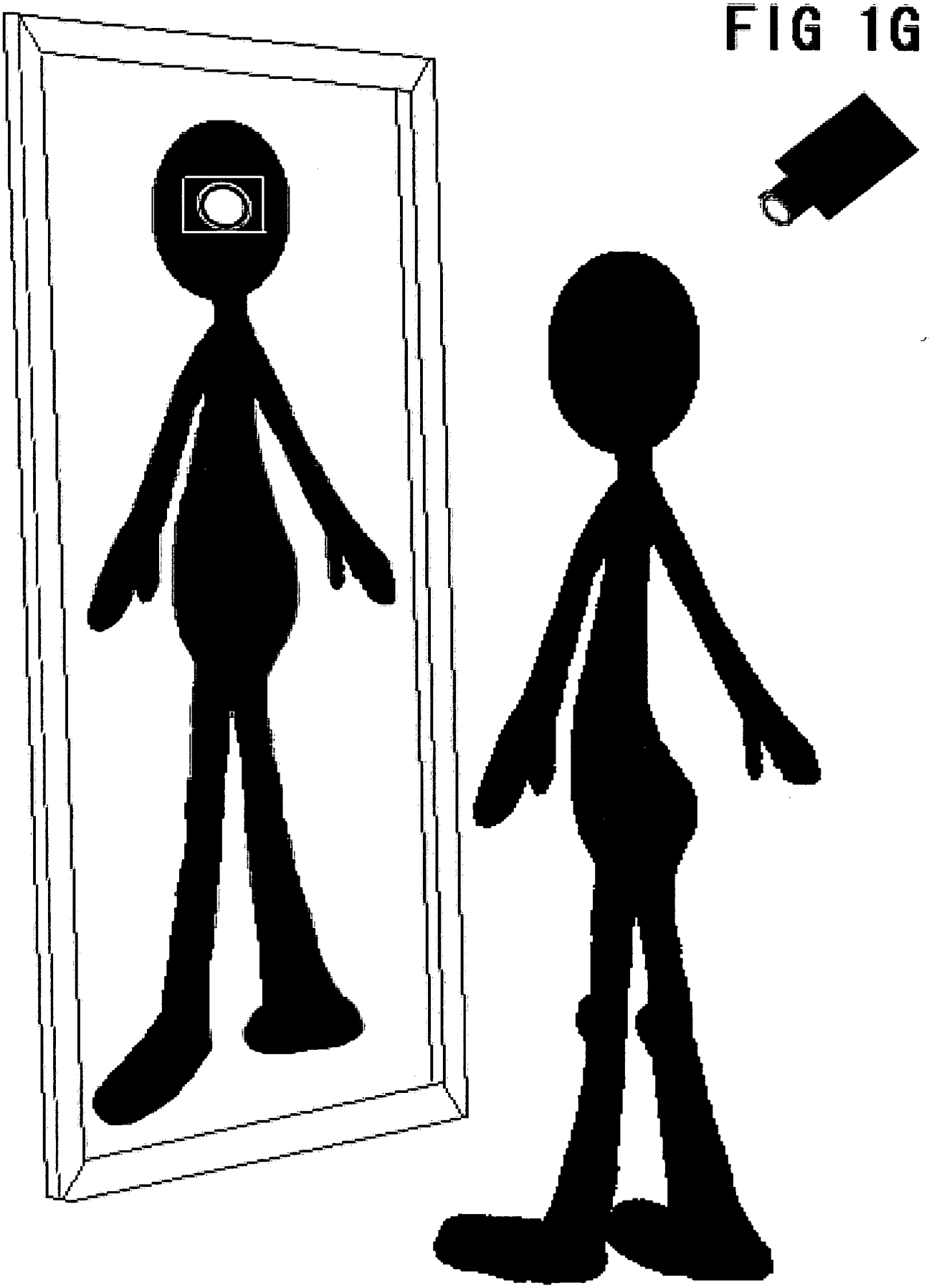
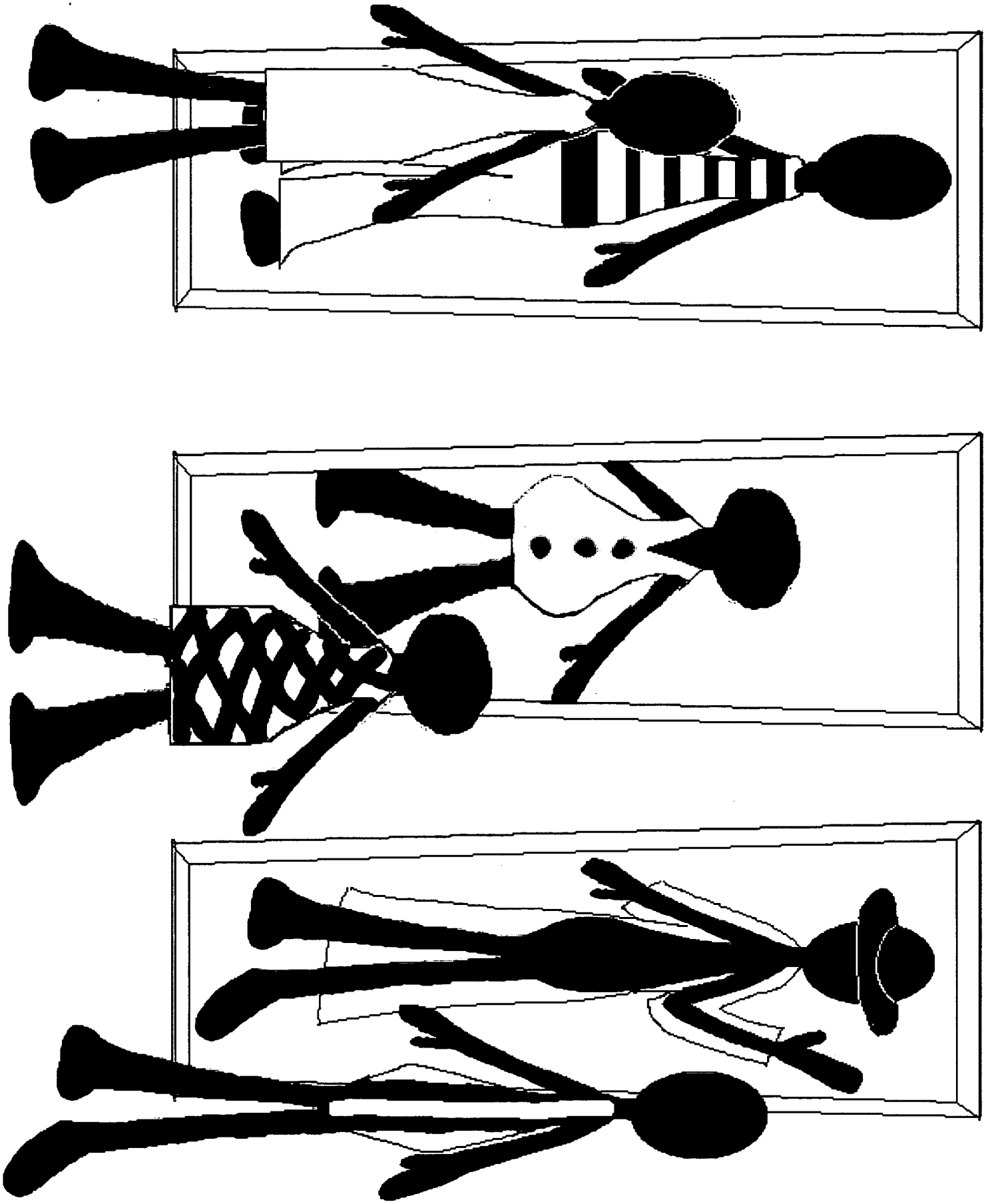
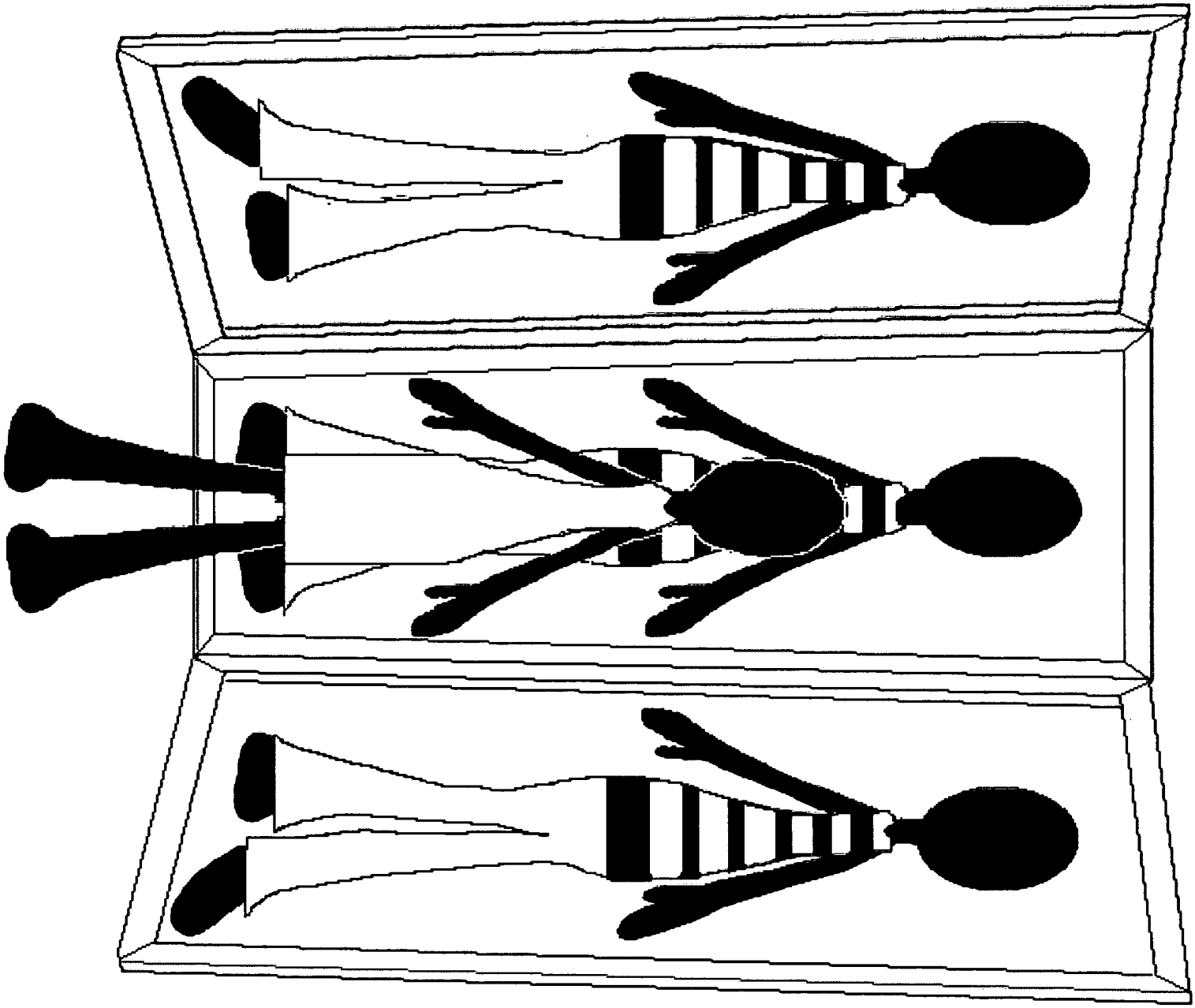


FIG 1F

FIG 1G







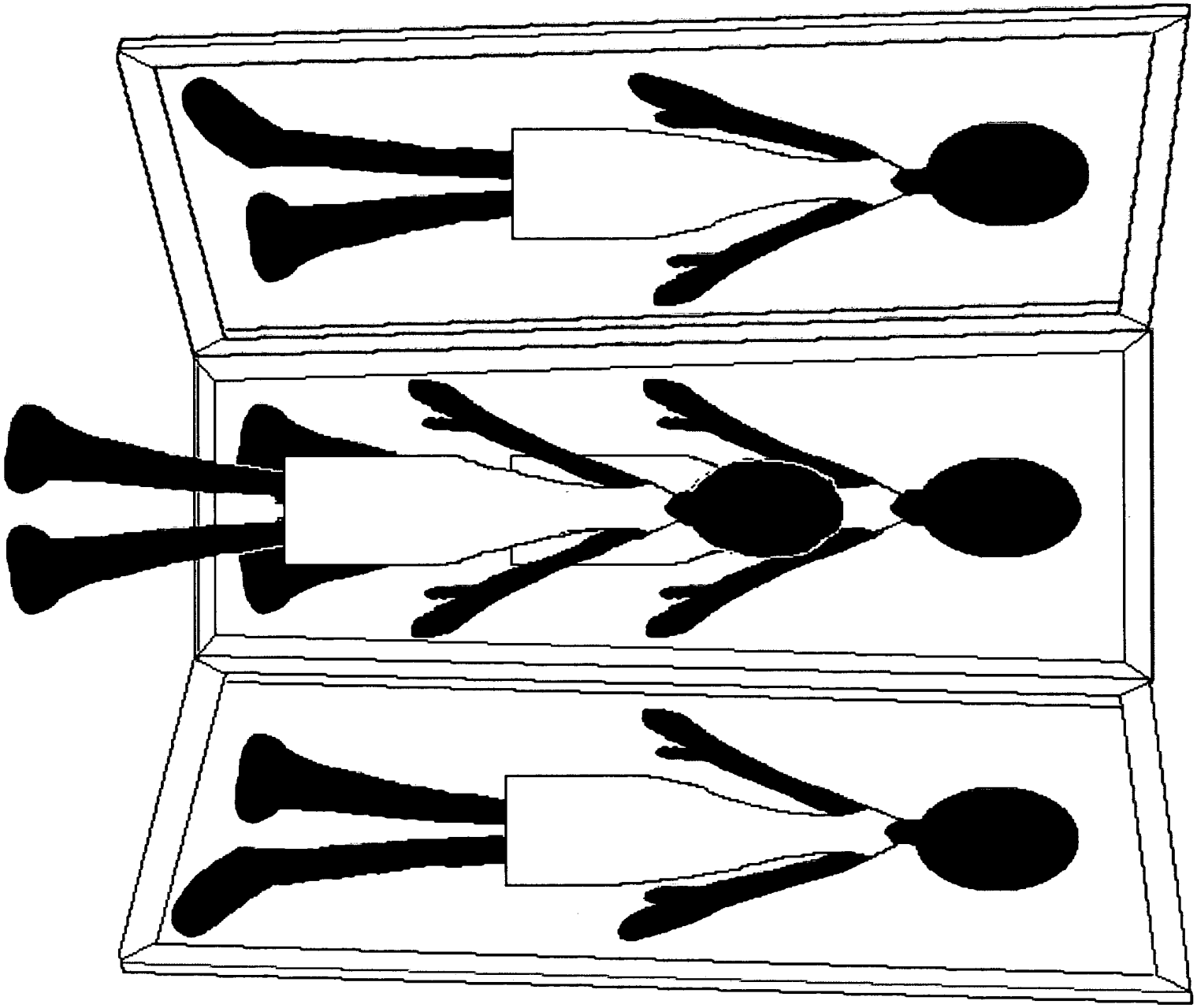


FIG 4A

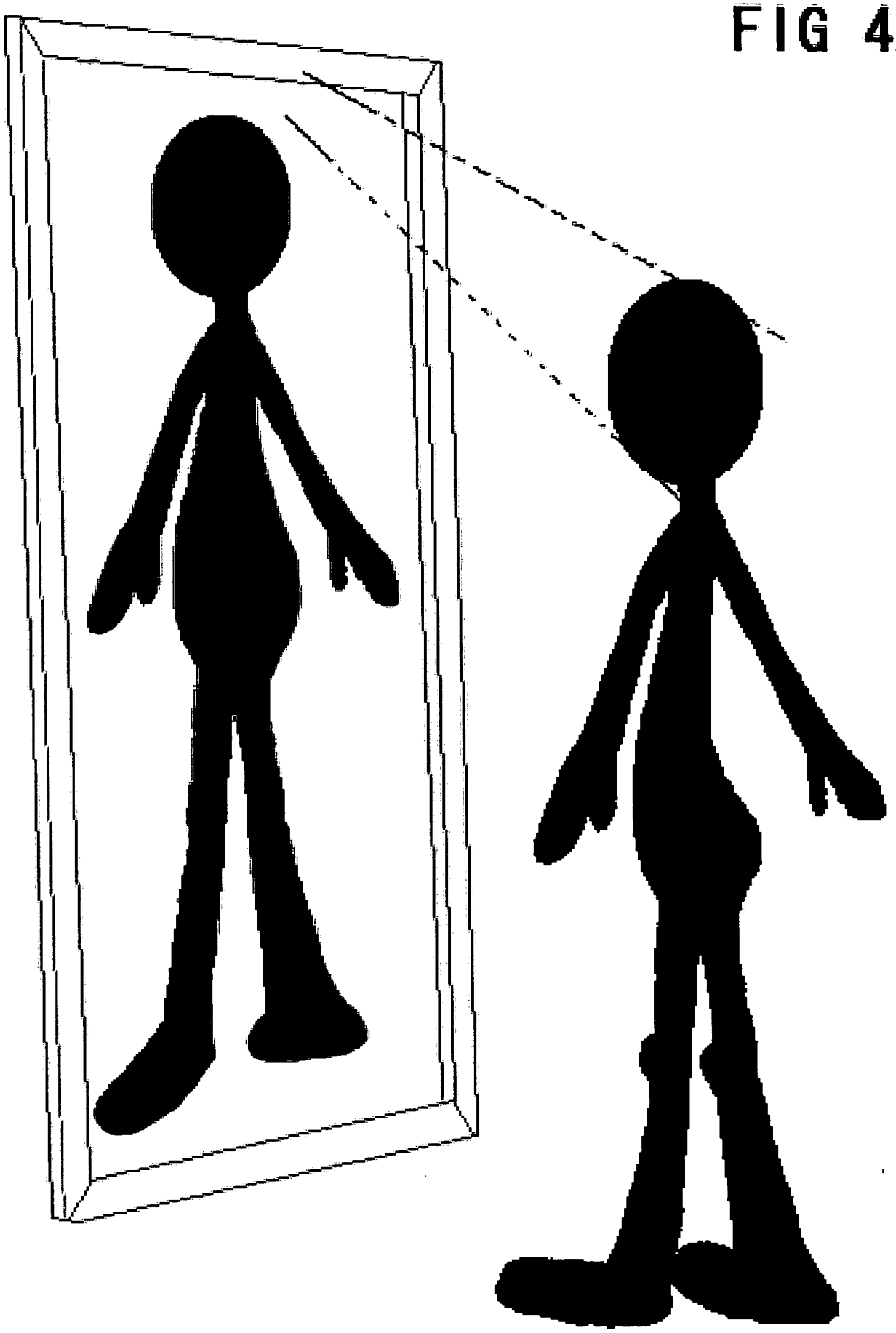


FIG 4B

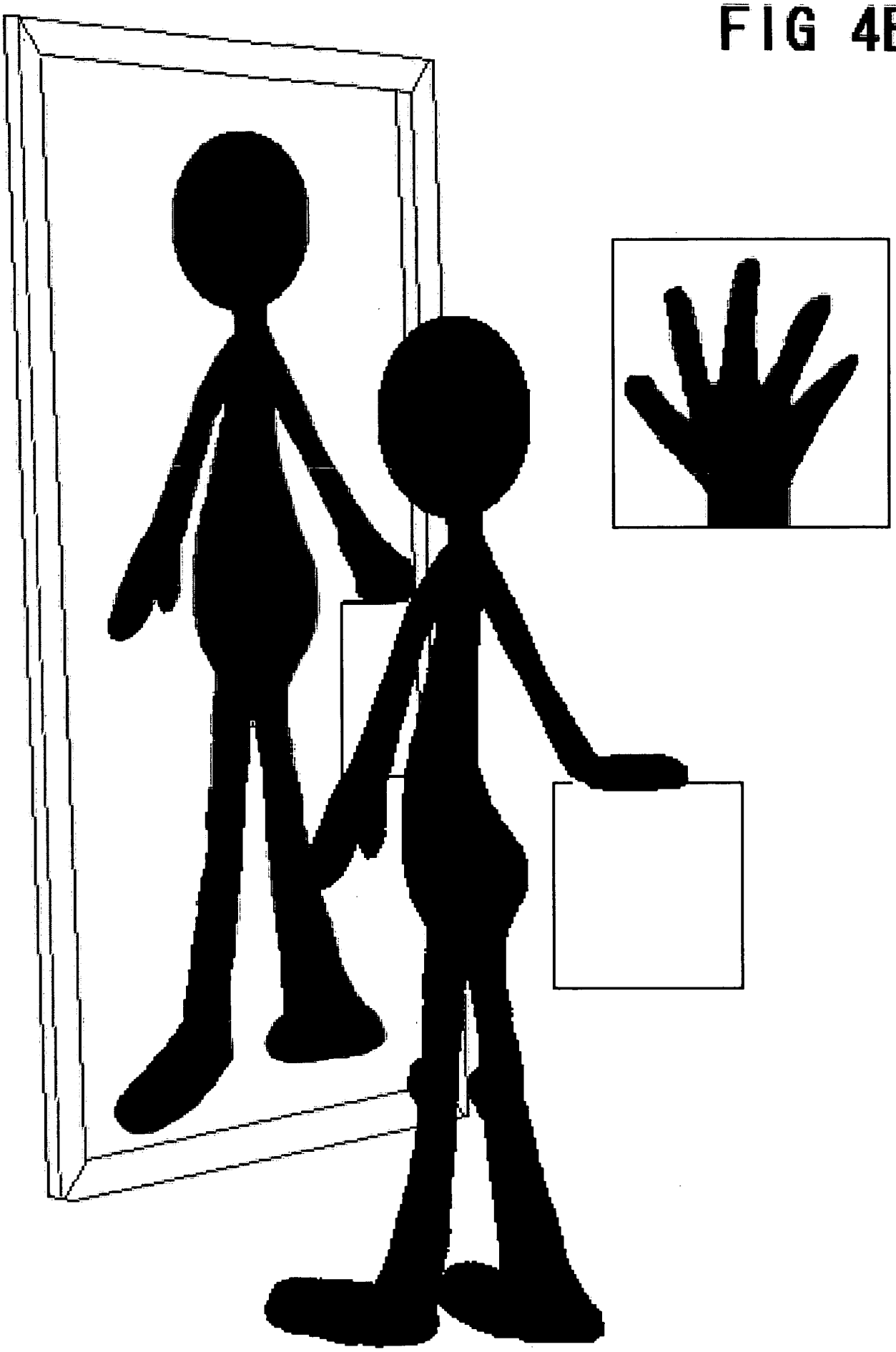


FIG 4C

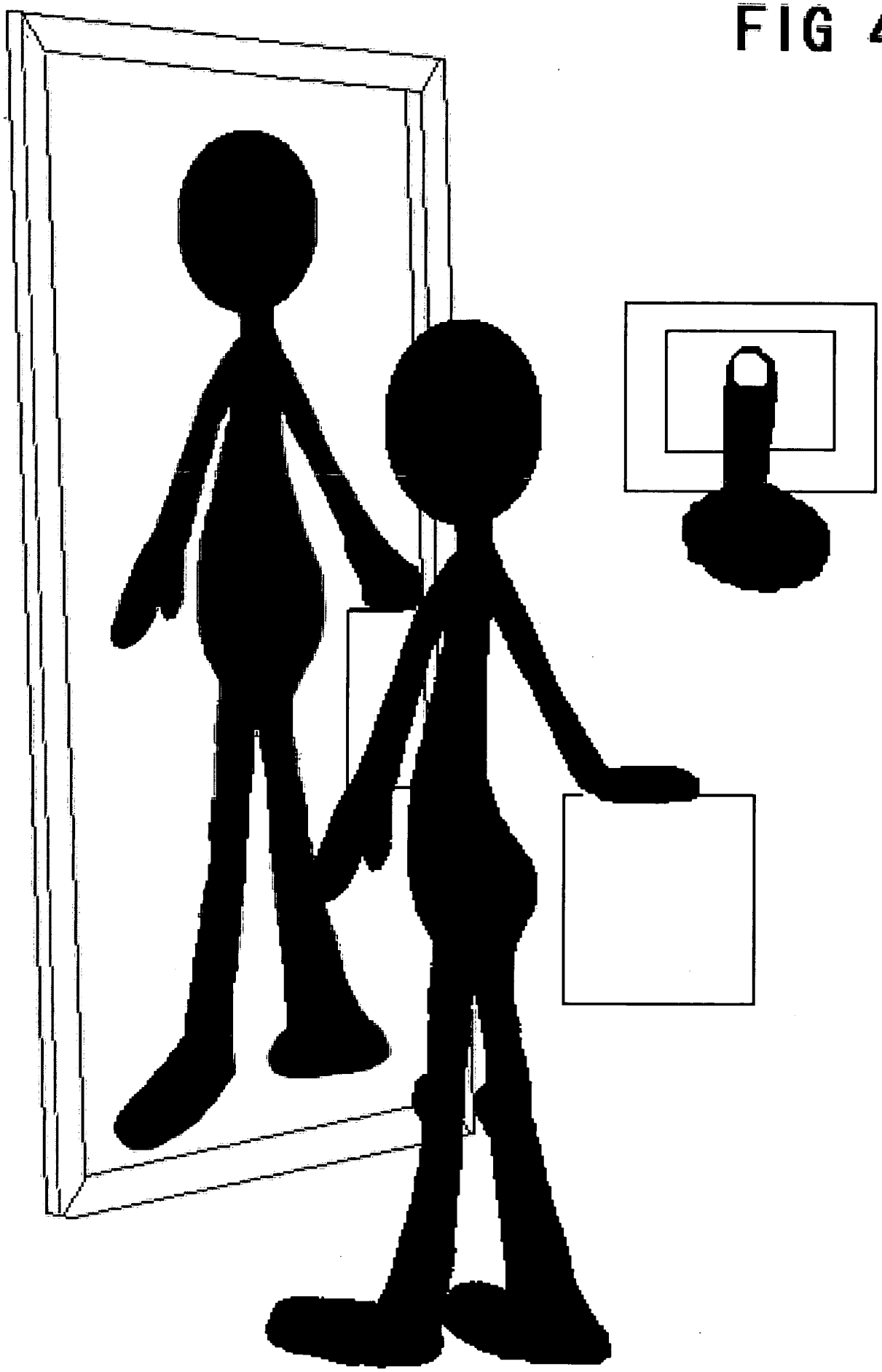


FIG 4D

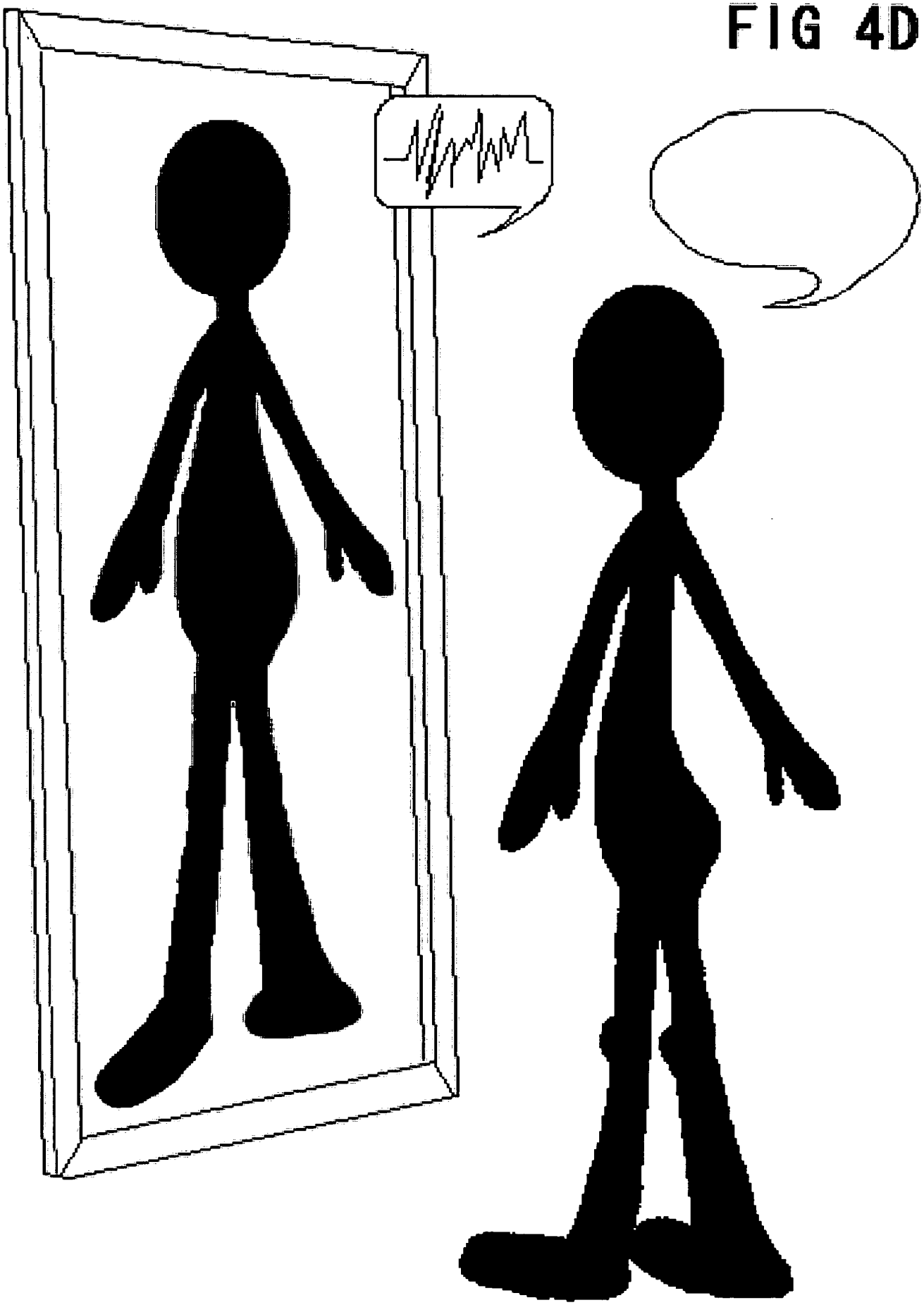


FIG 4E

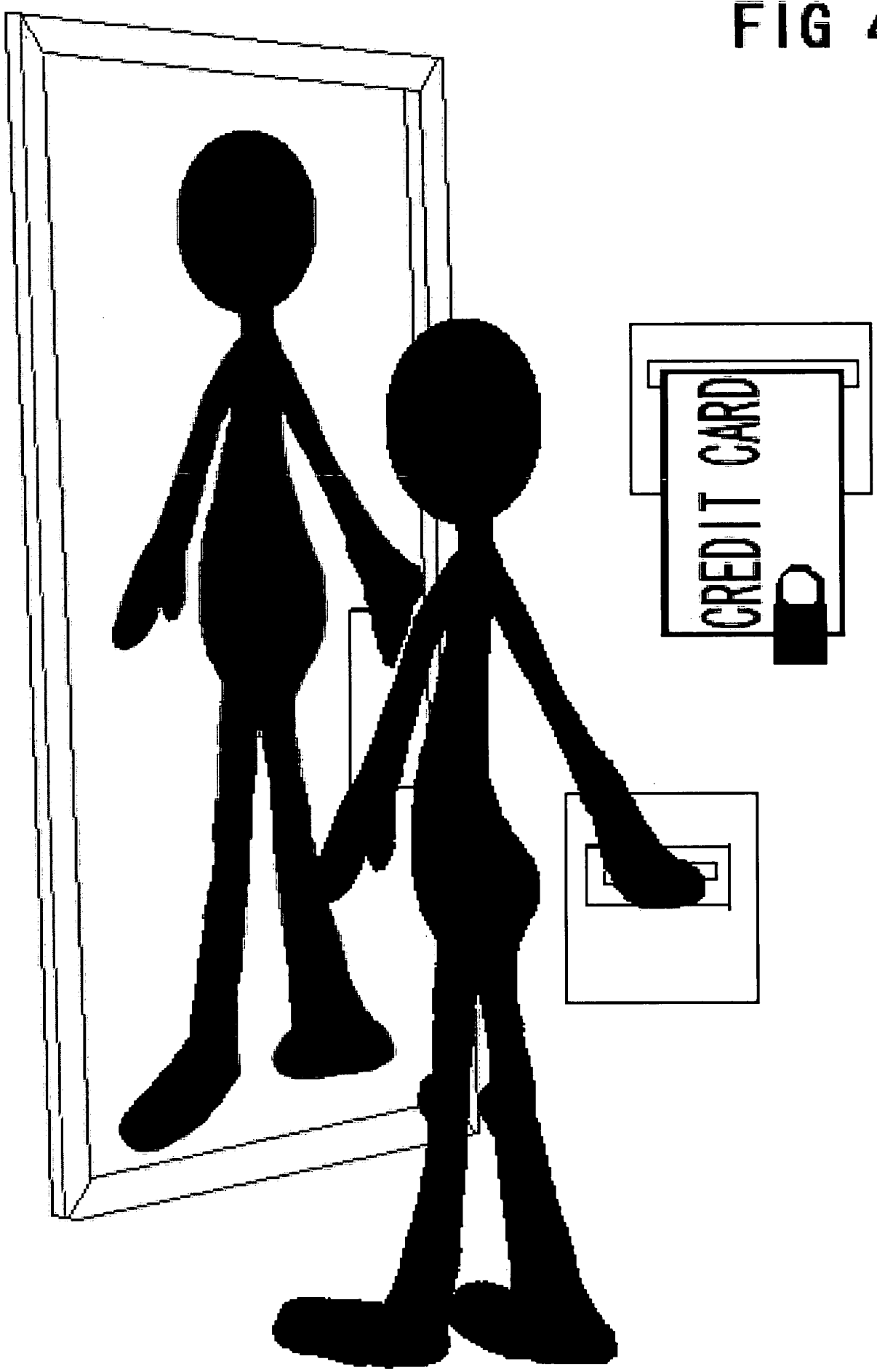


FIG 4F

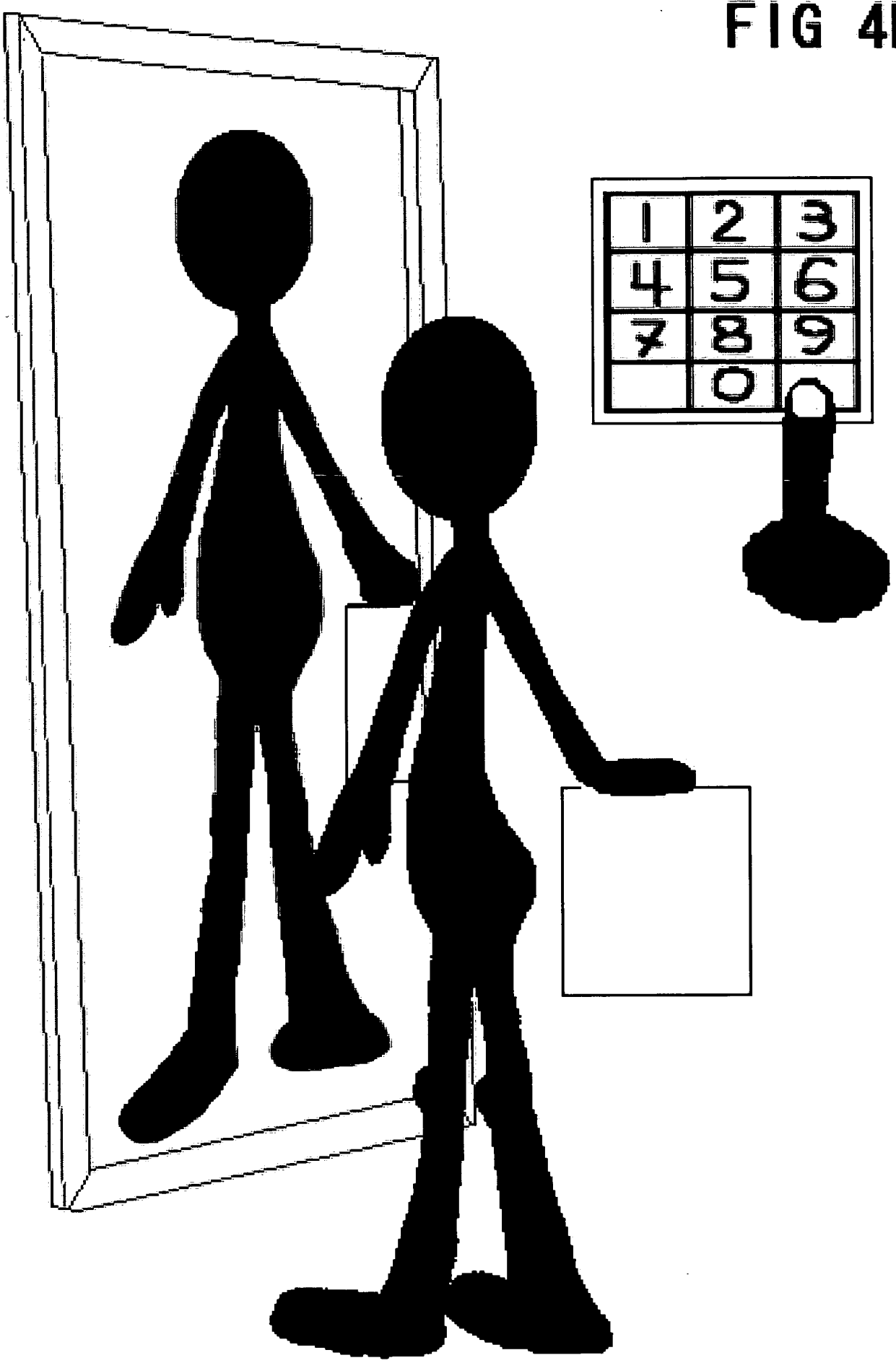


FIG 4G

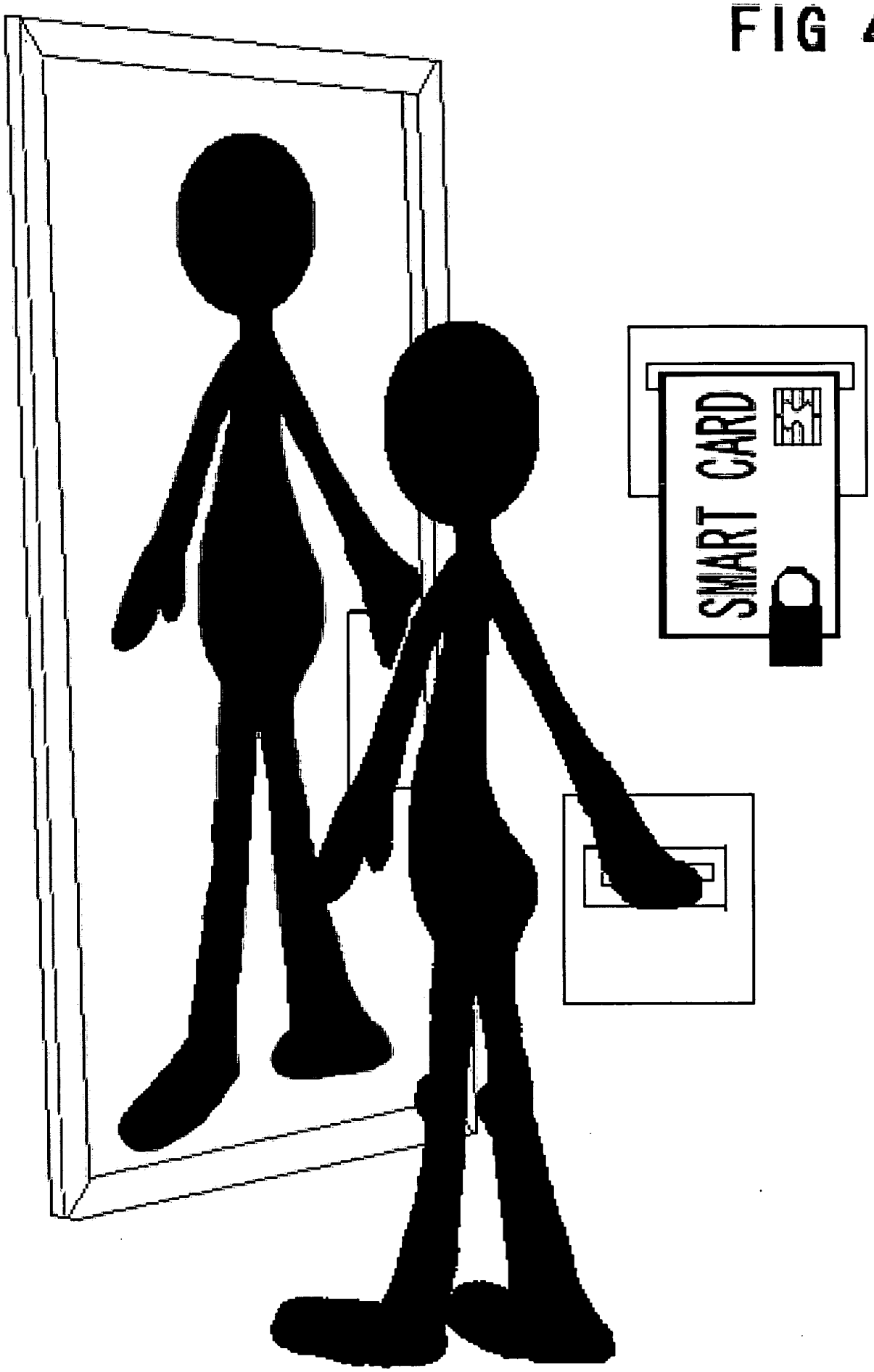


FIG 4H

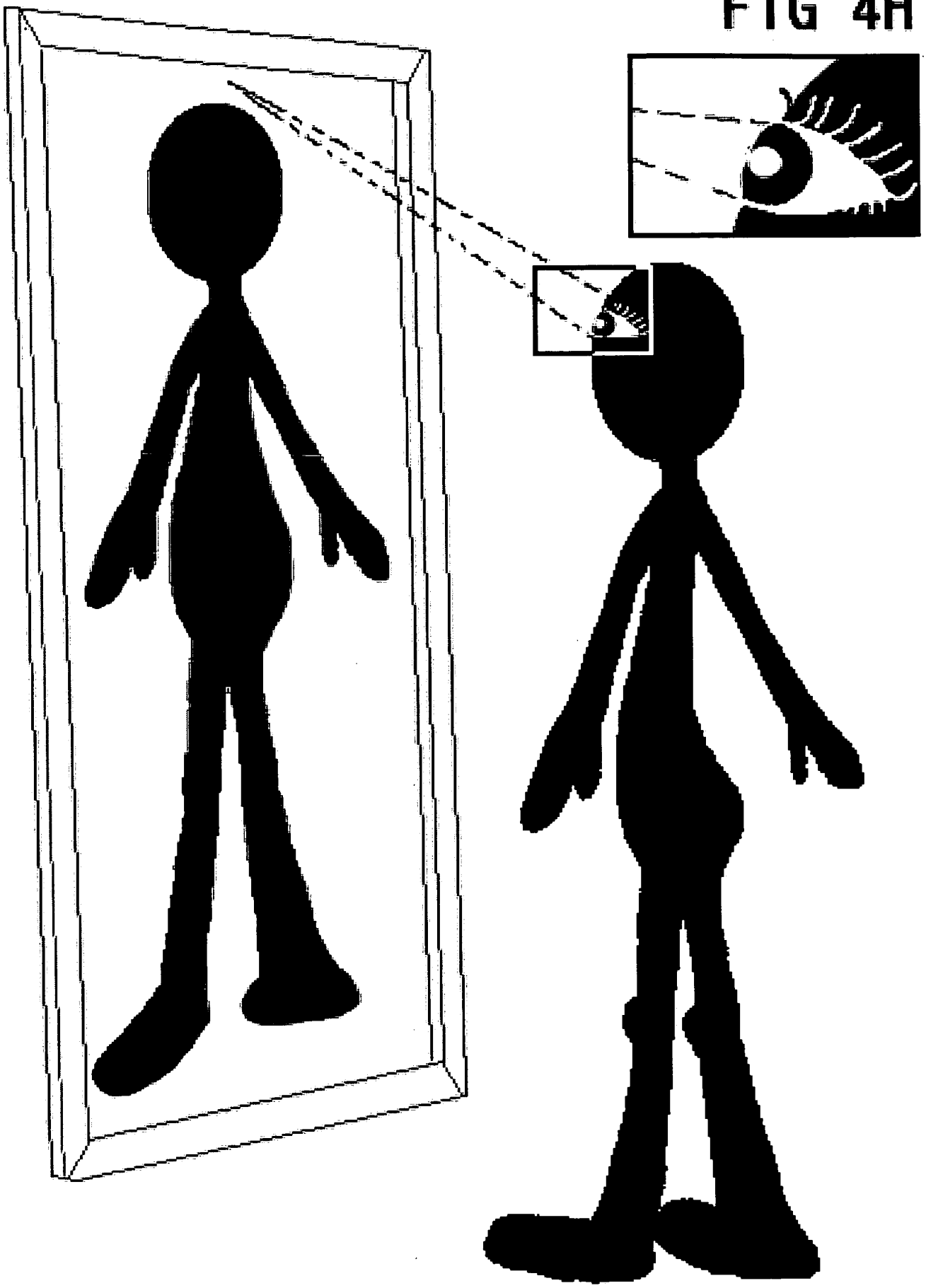
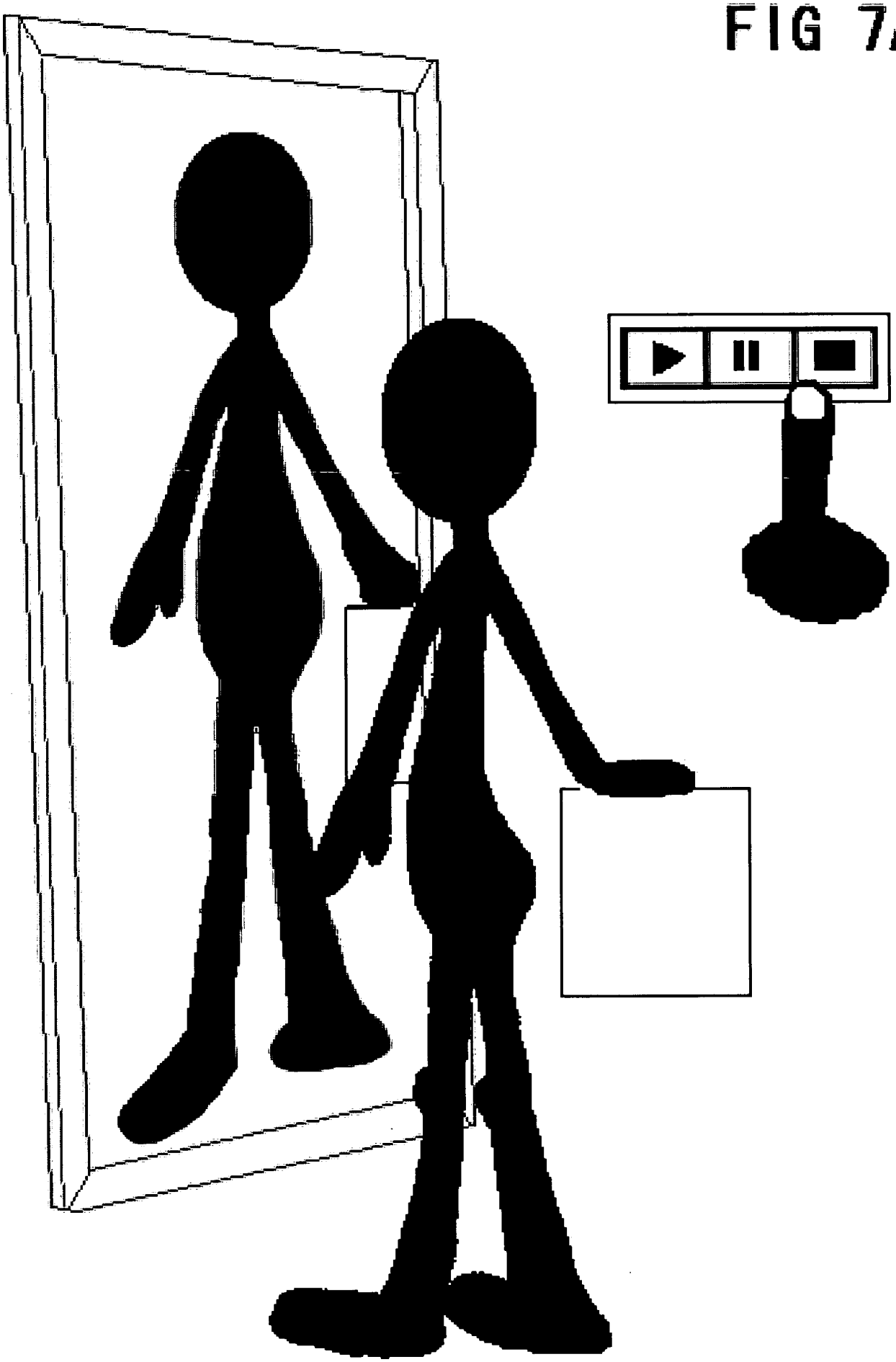


FIG 7A



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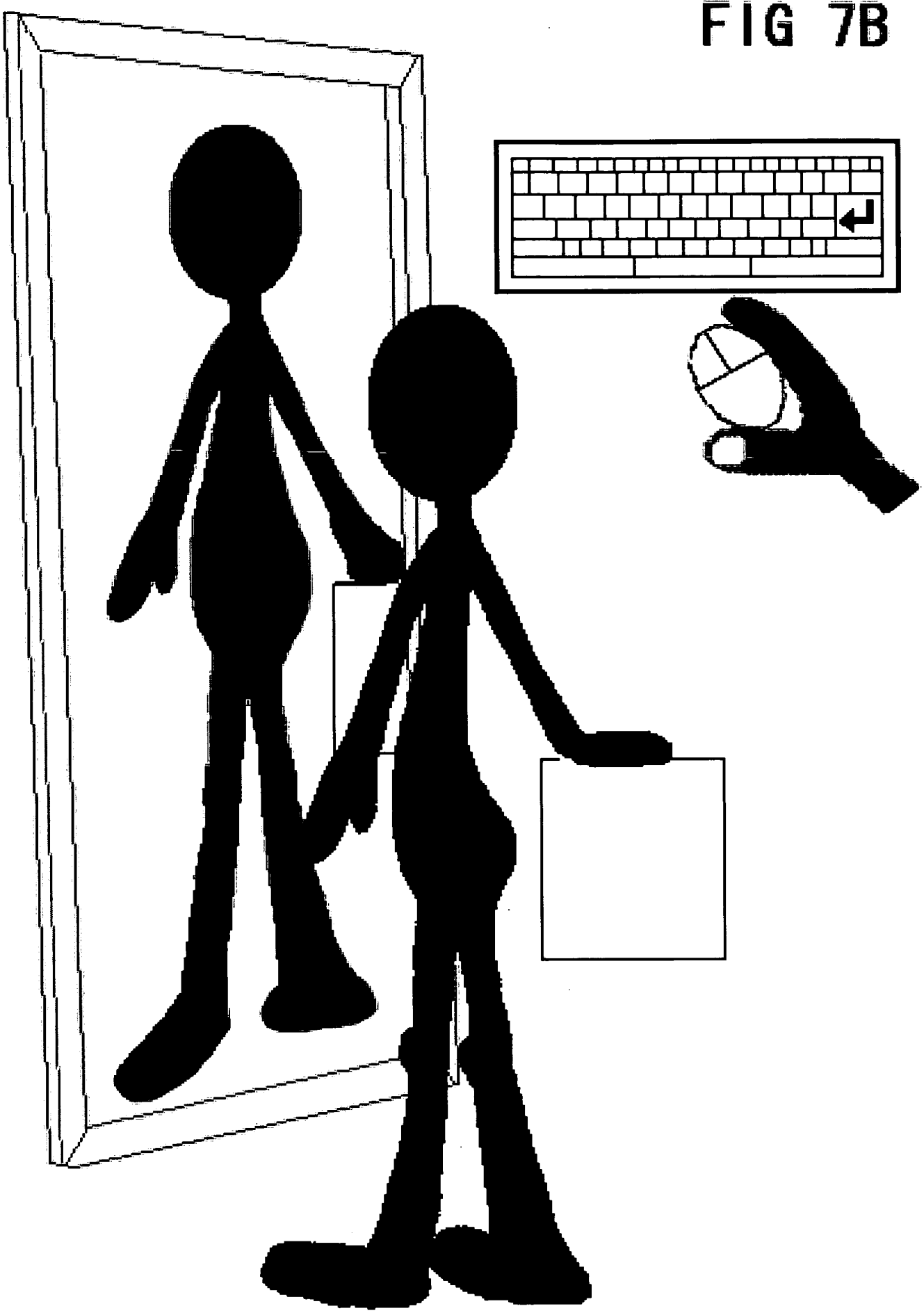

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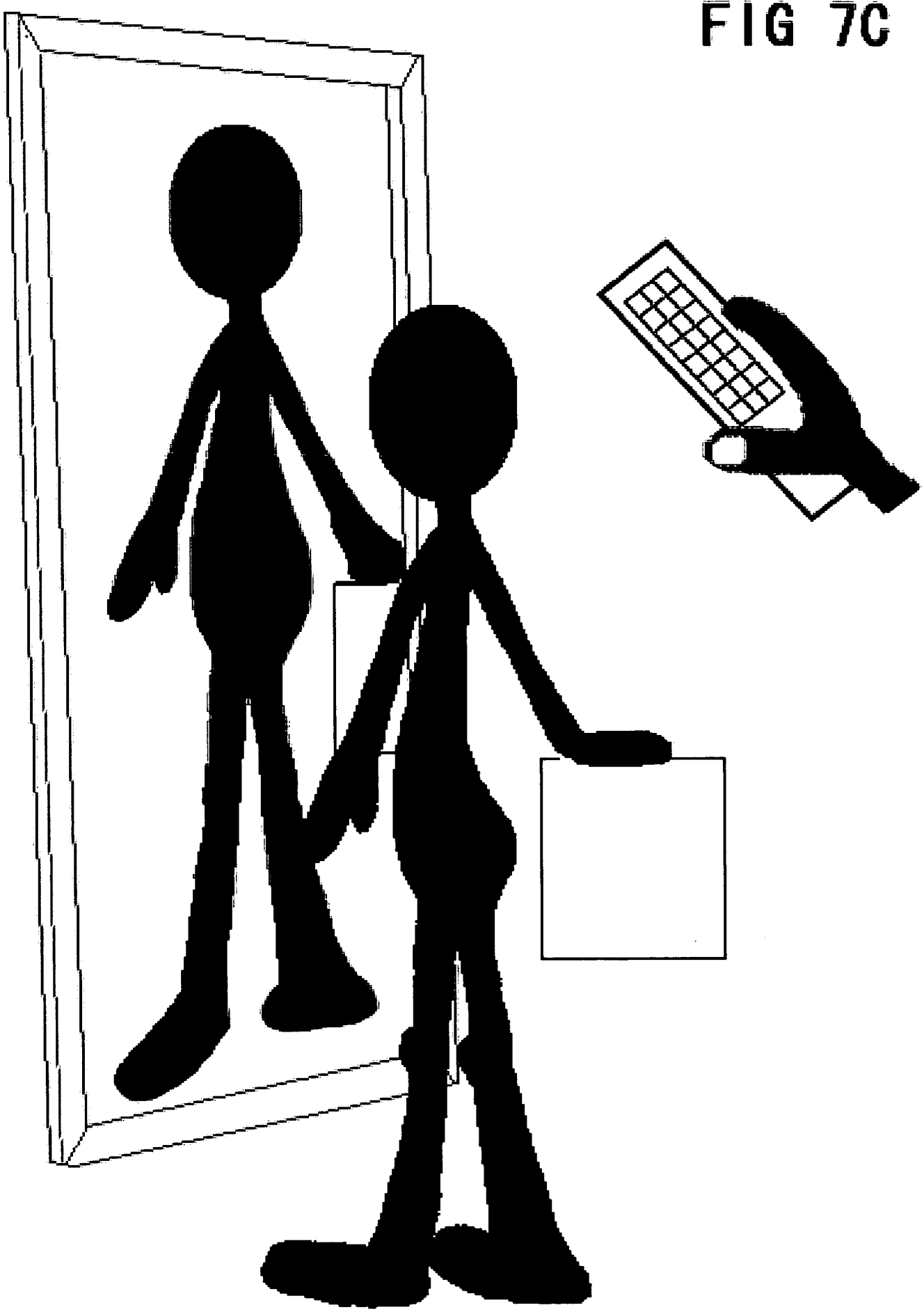

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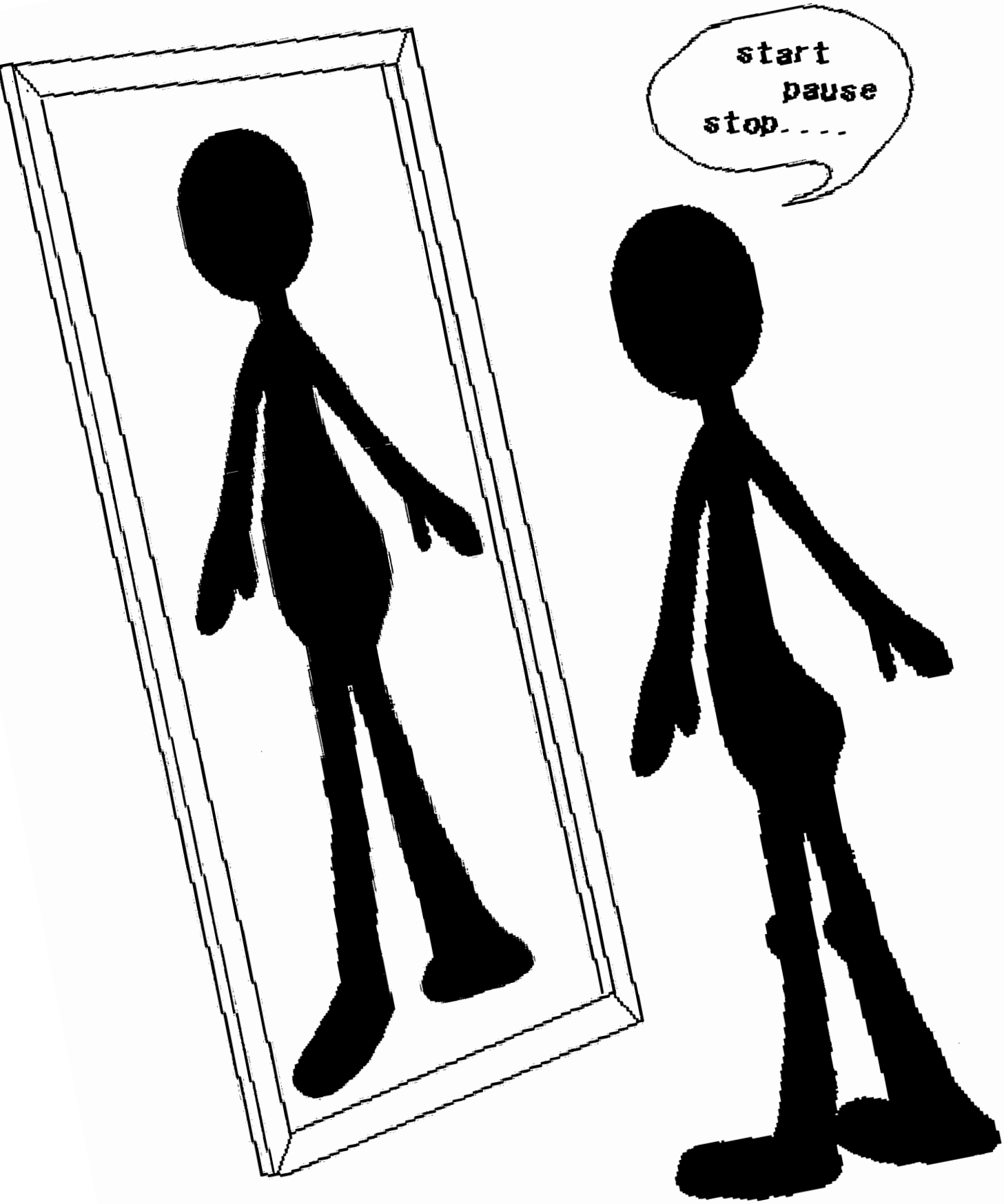
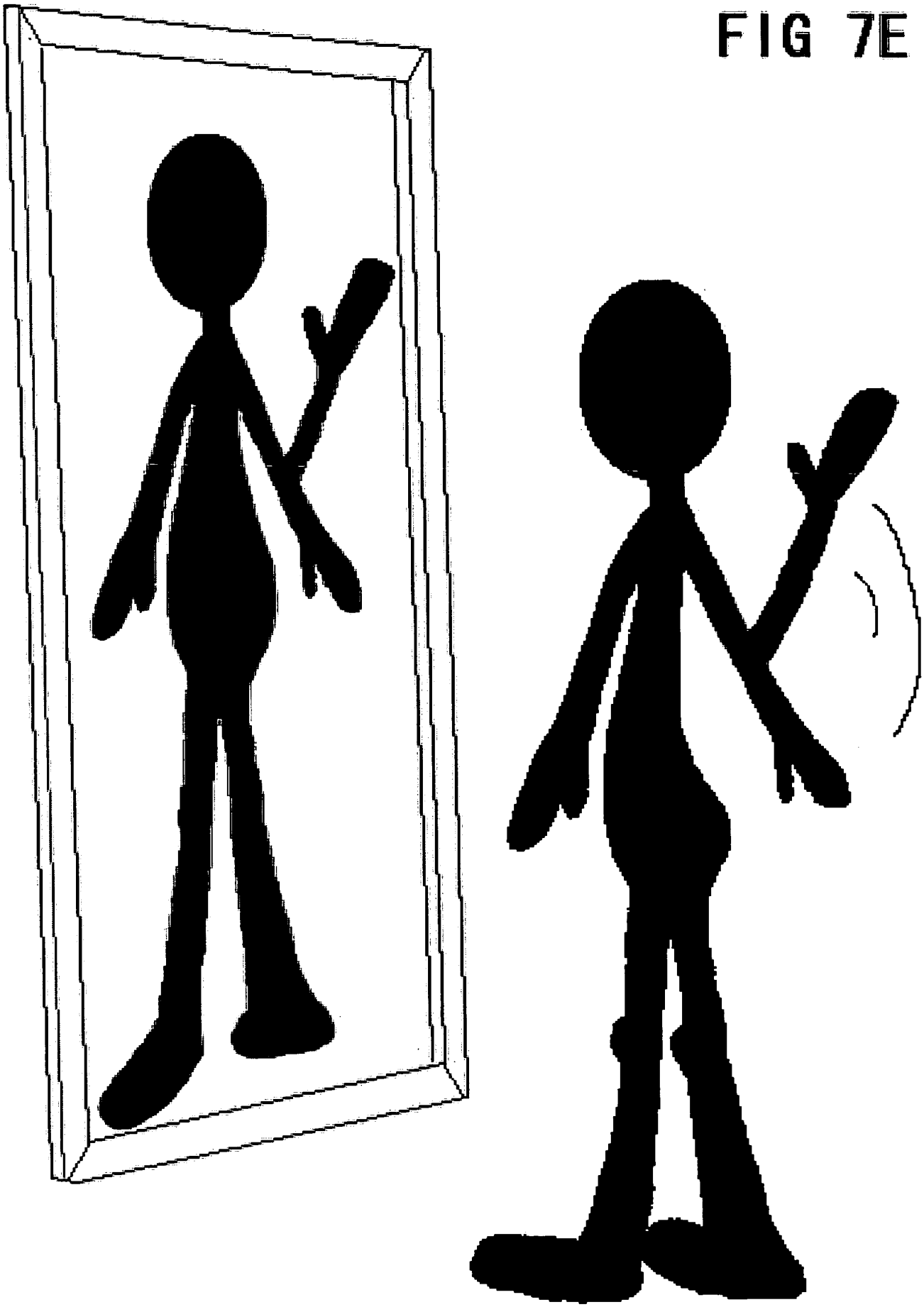


FIG 7E



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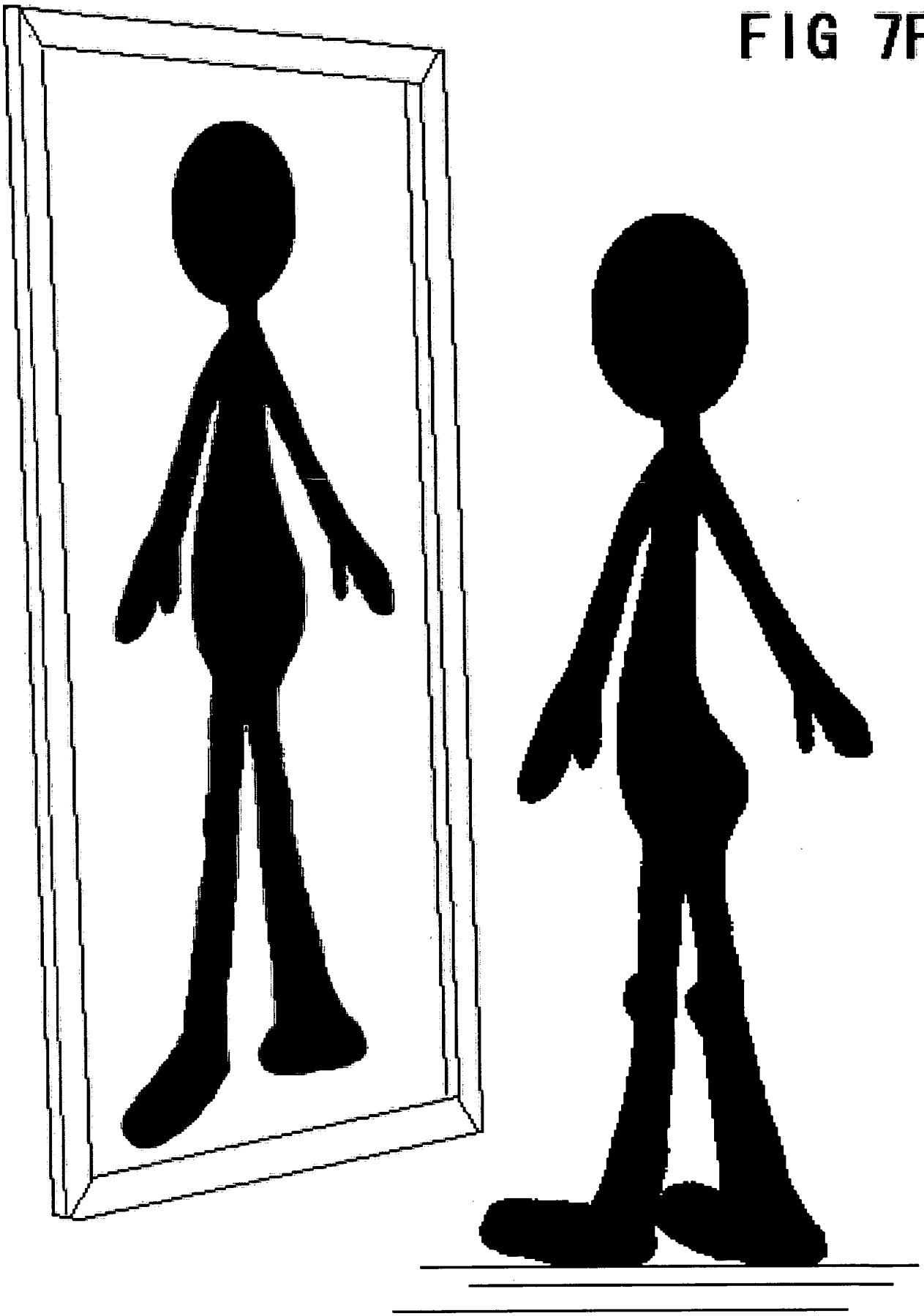


FIG 7G

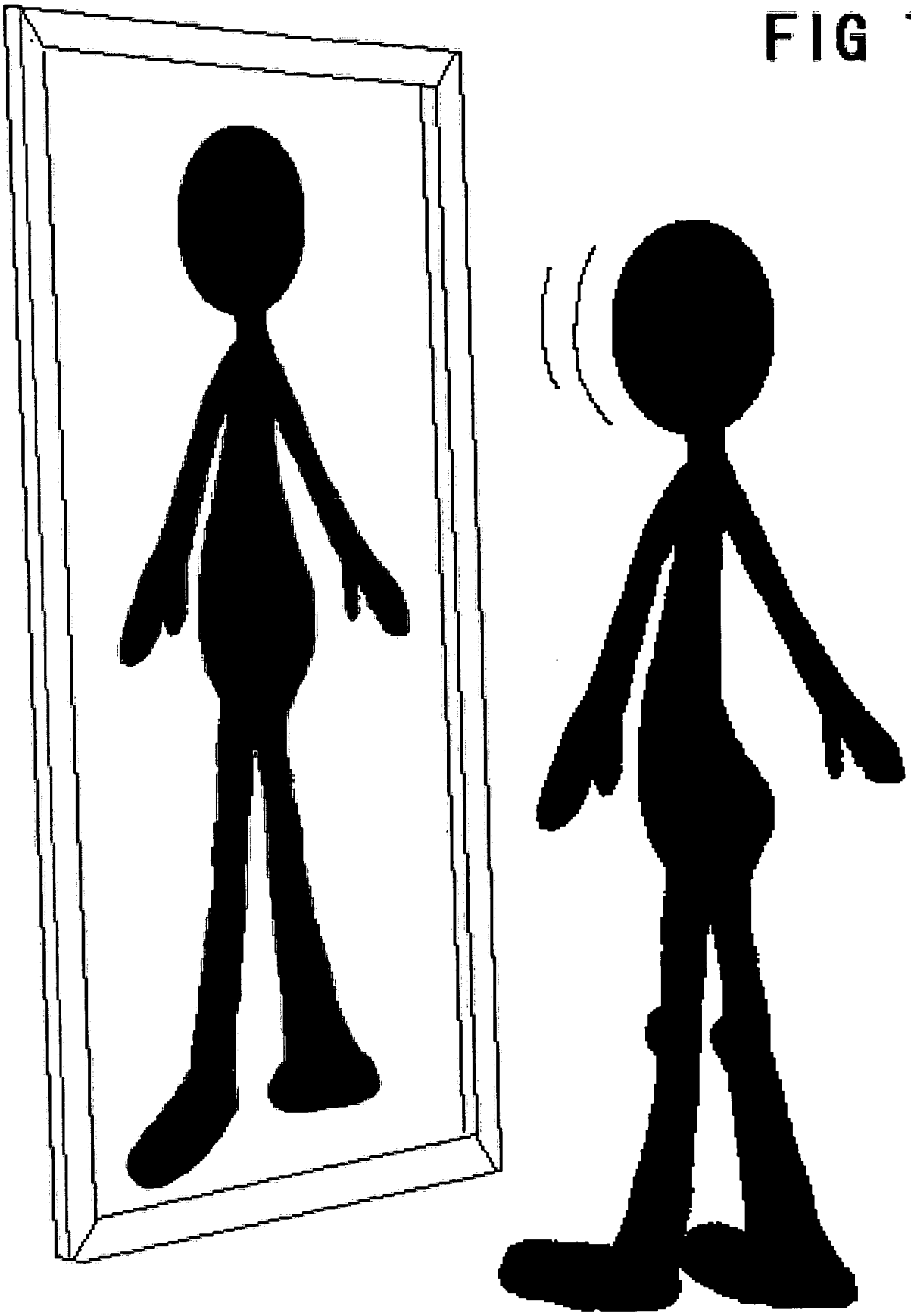
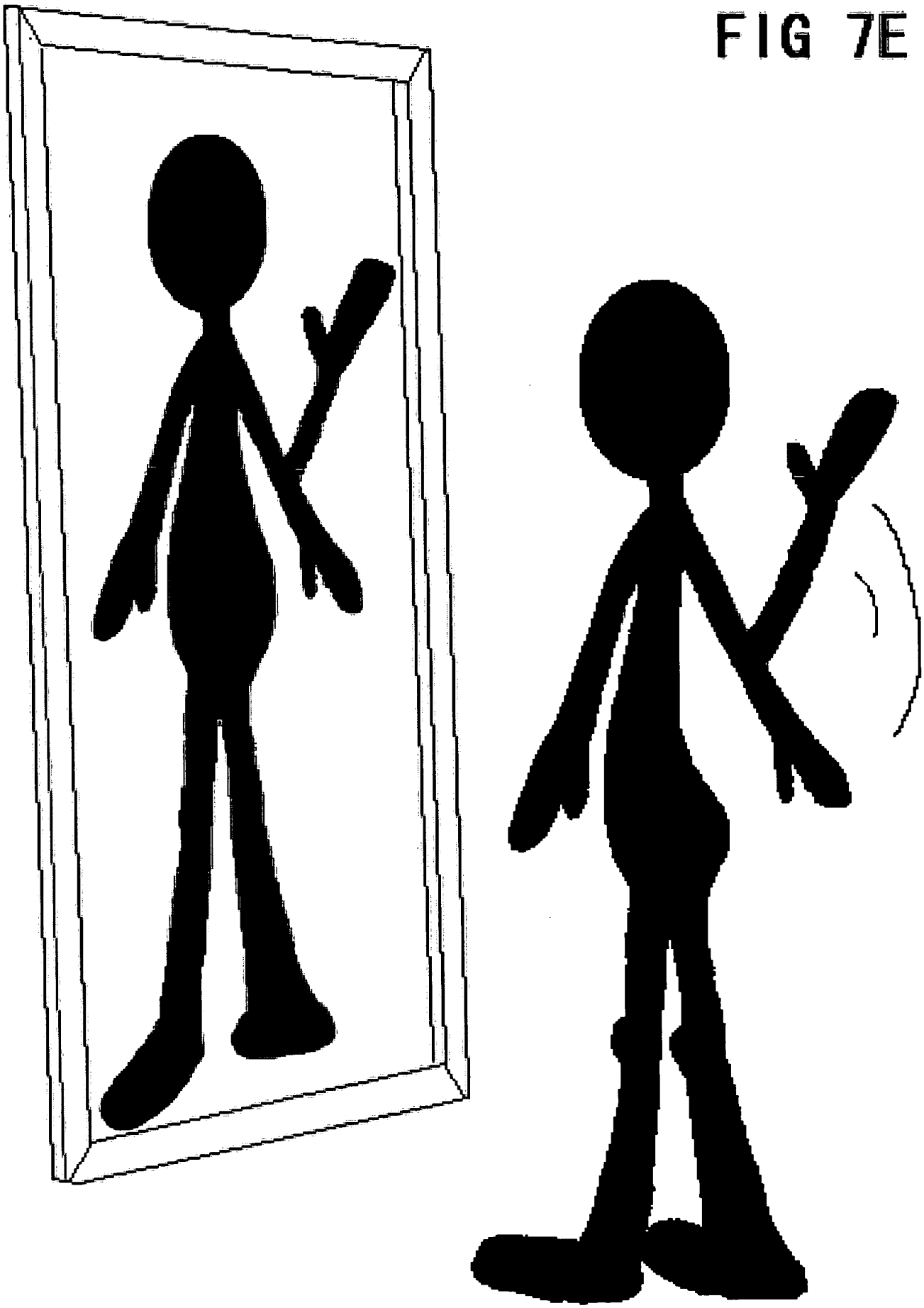
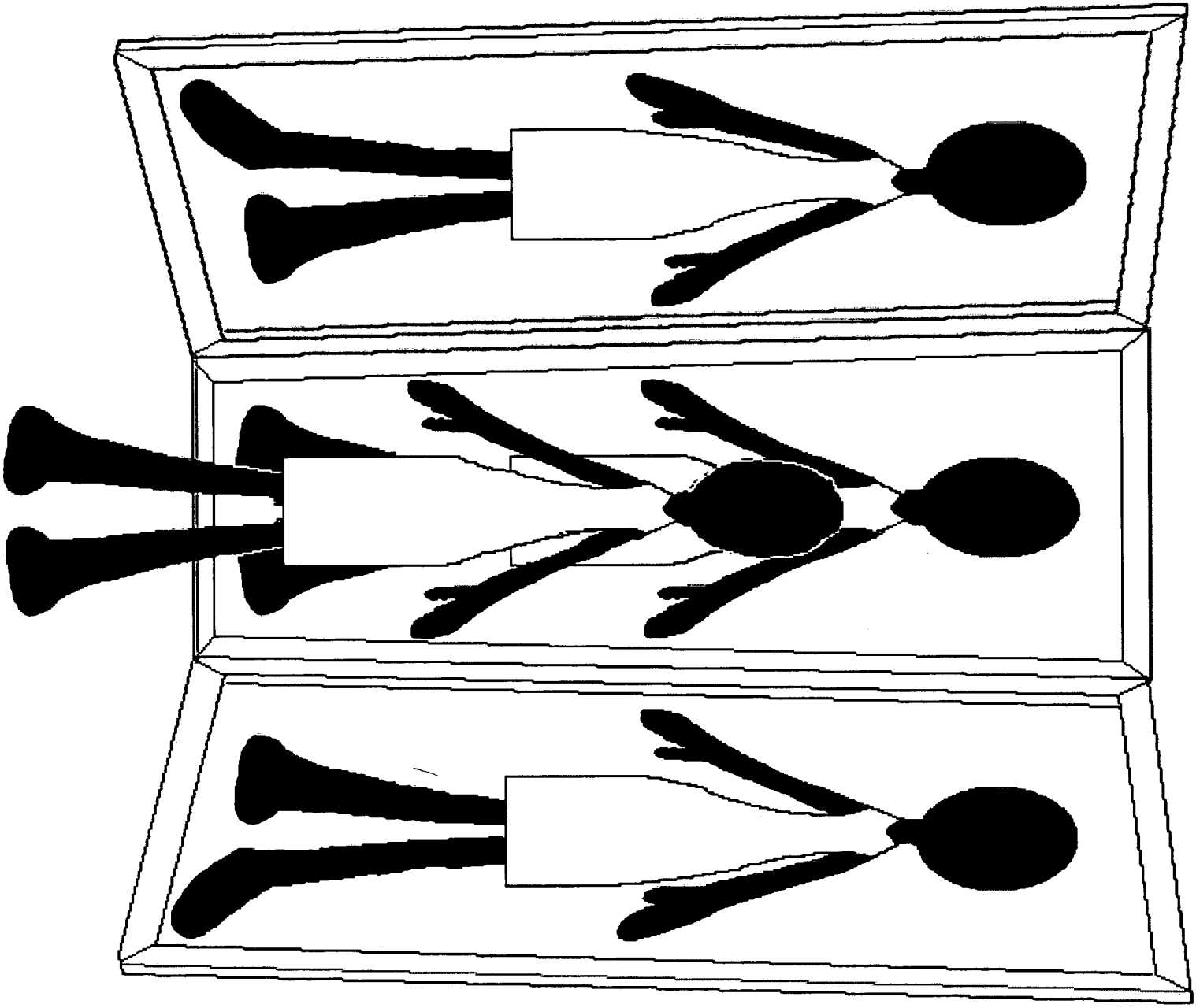


FIG 7E





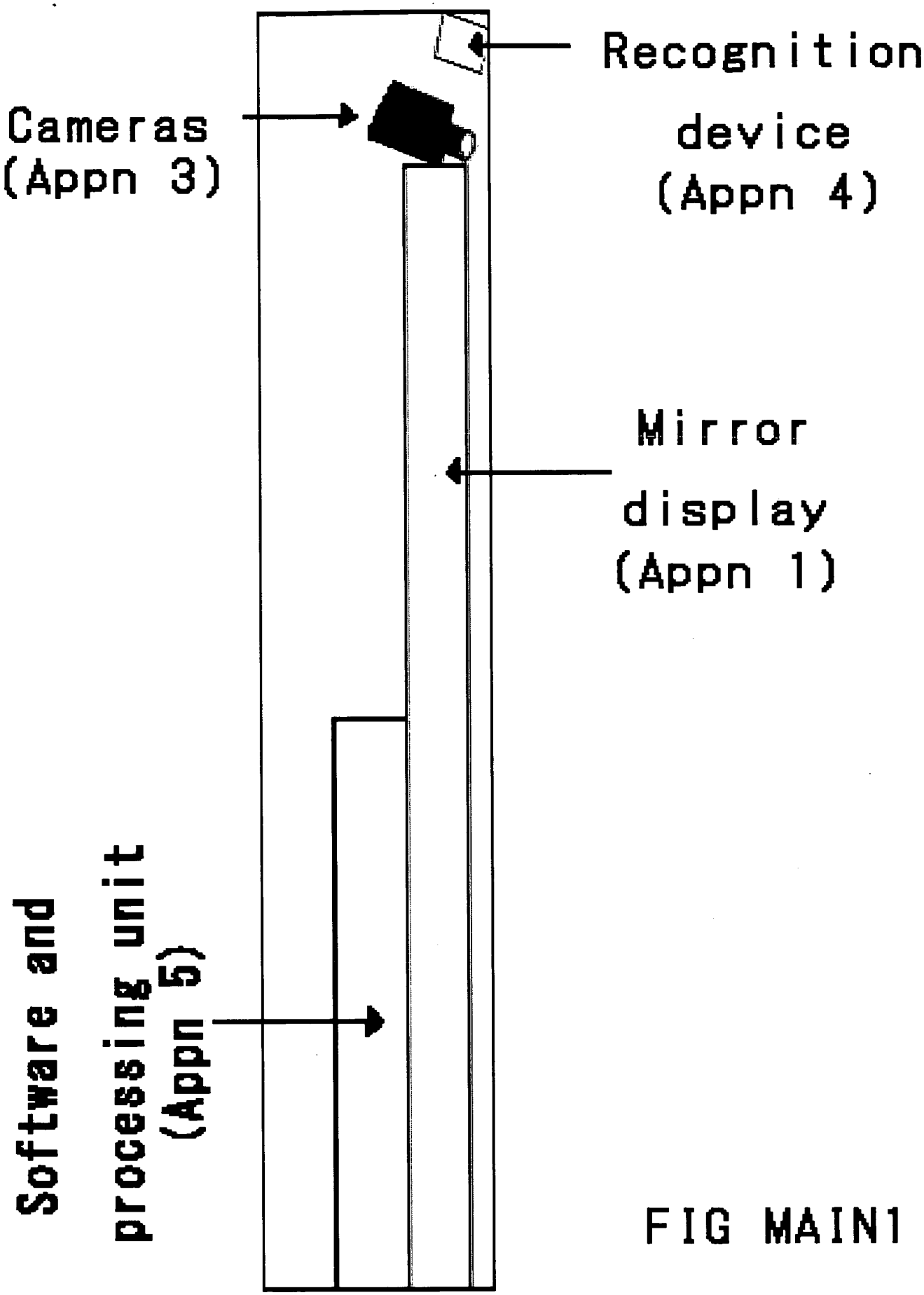
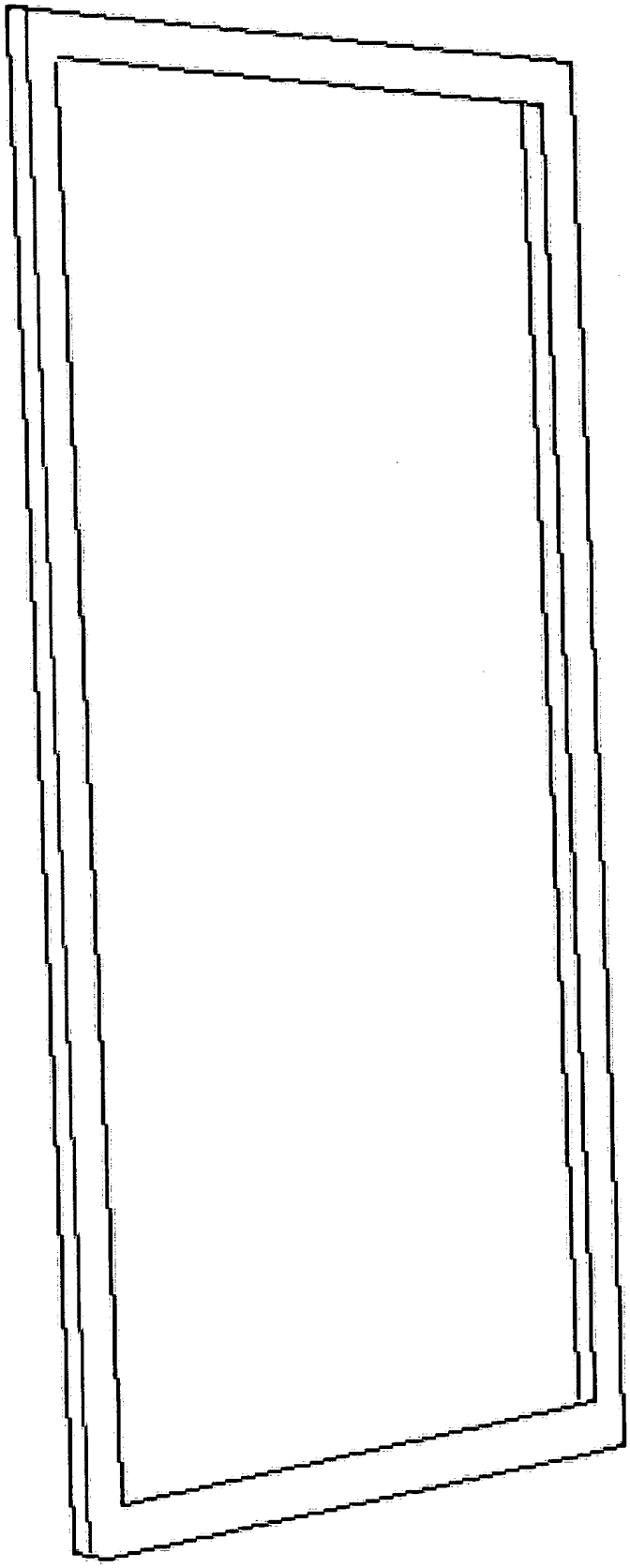
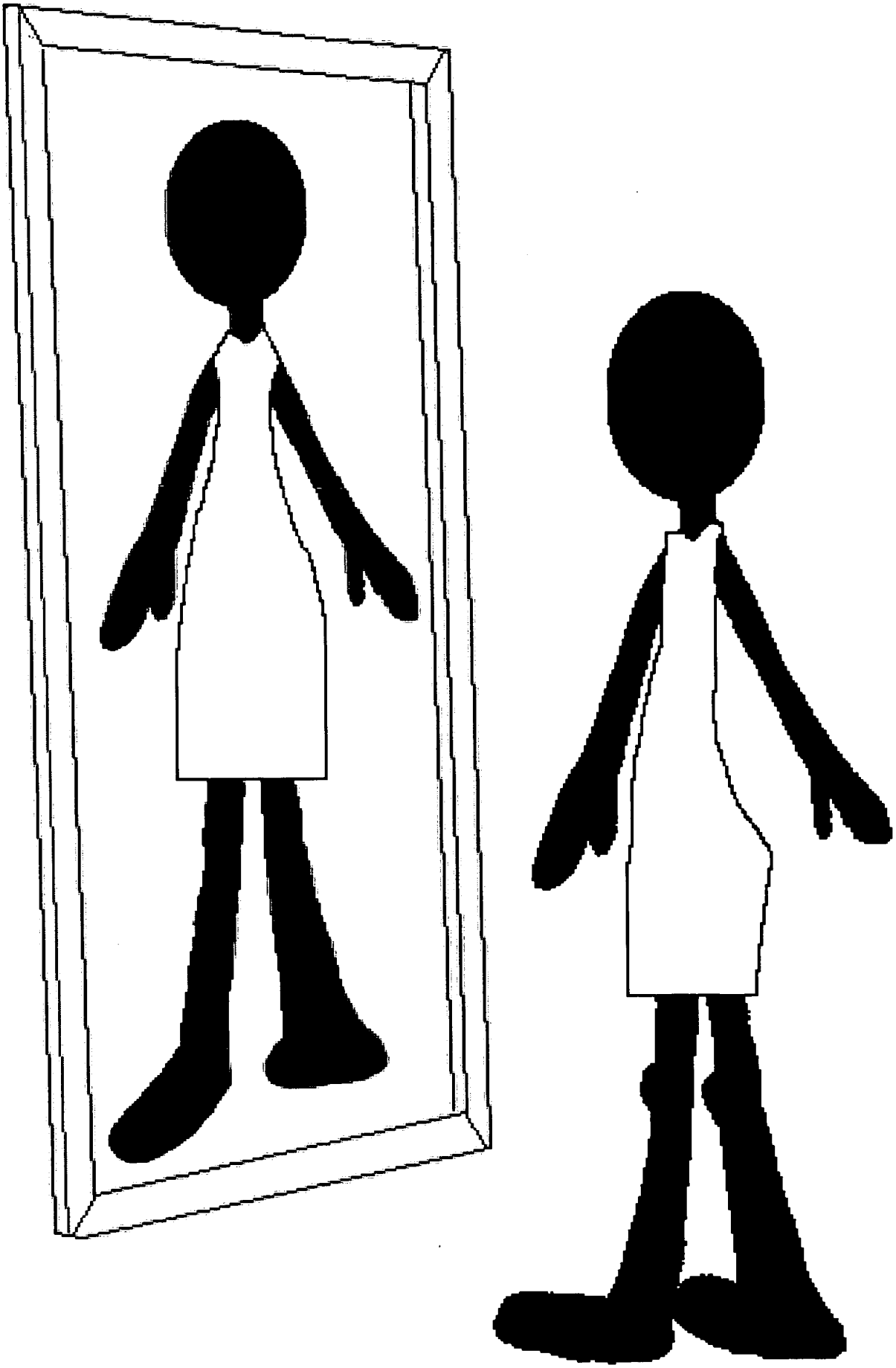
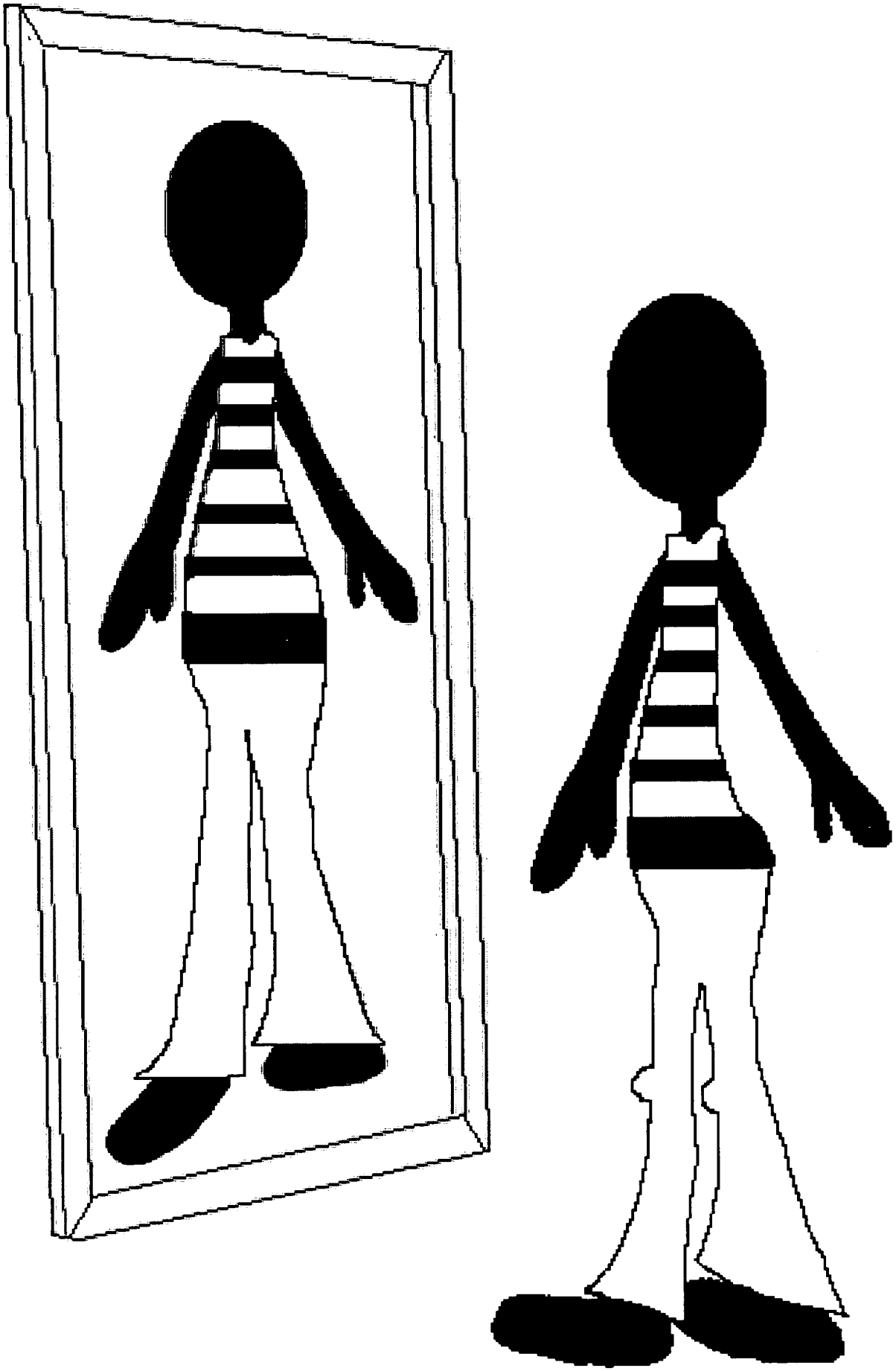
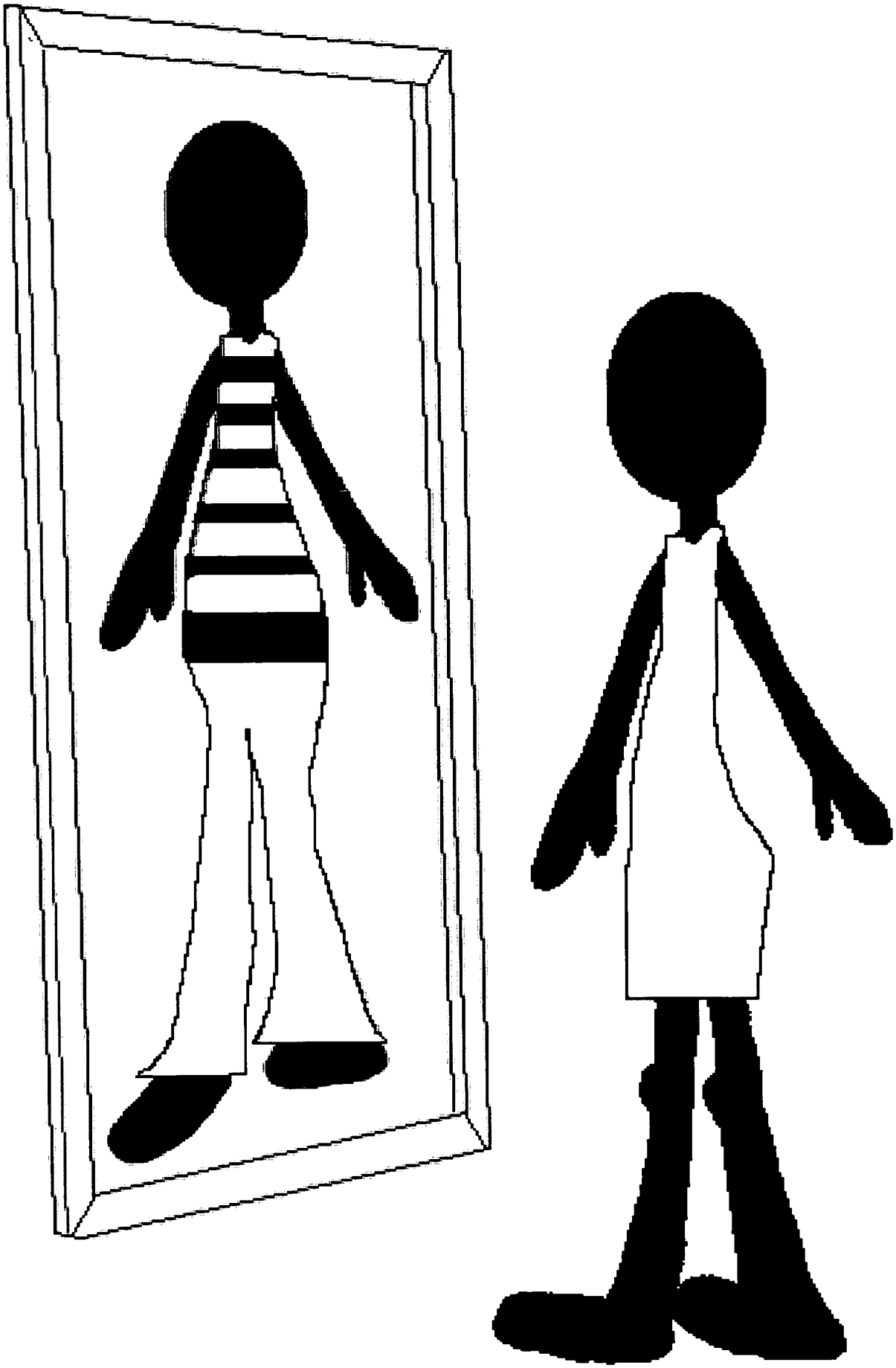

Recognition device (Appn 4)
Cameras (Appn 3)
Mirror display (Appn 1)
Software and processing unit (Appn 5)

FIG MAIN1









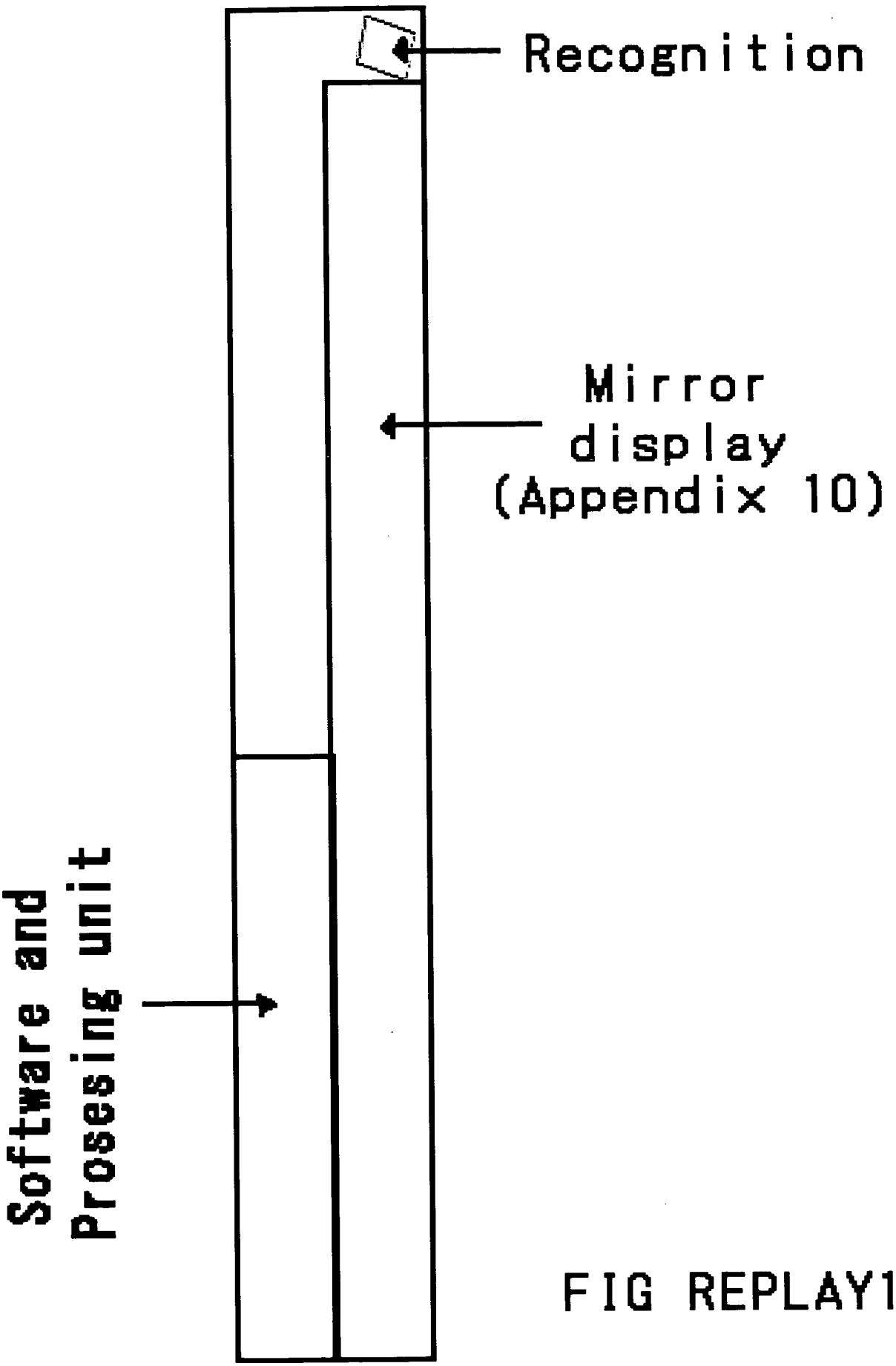

Recognition
Mirror display (Appendix 10)
Software and Prosesing unit

FIG REPLAY1

PATENT APPLICATION SERIAL NO. _____

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
FEE RECORD SHEET

03/03/2005 EABUBAK1 00000034 503355 60656884
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PTO-1556
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