

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

INVENTOR(S)					
Given Name (first and middle [if any]) Nissi		Family Name or Surname VILCOVSKI		Residence (City and either State or Foreign Country) 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					
Address Suite 1001					
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	
☐ Payment by credit card. Form PTO-2038 is attached.				FILING FEE AMOUNT (\$) 100.00	
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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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)

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)

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.

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/mirrordisp/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.

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, Shopping 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

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\bottom 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 ,

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

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

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

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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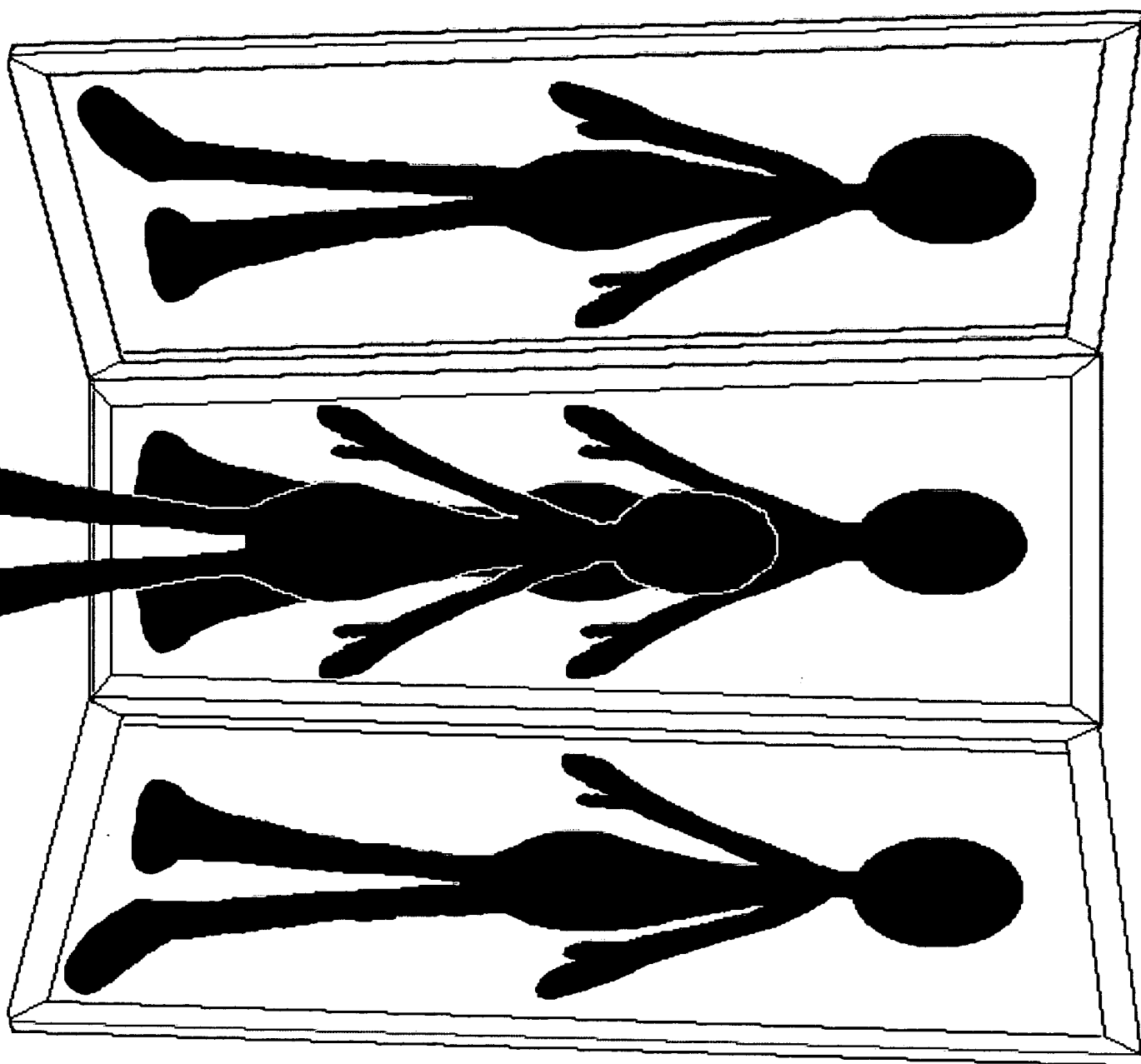
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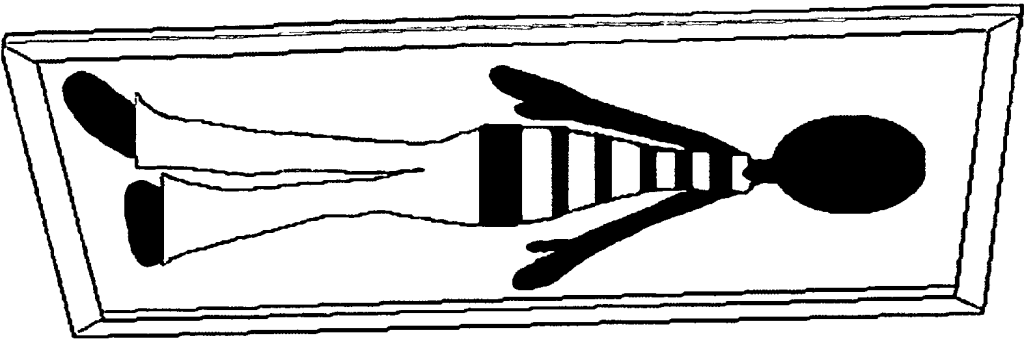
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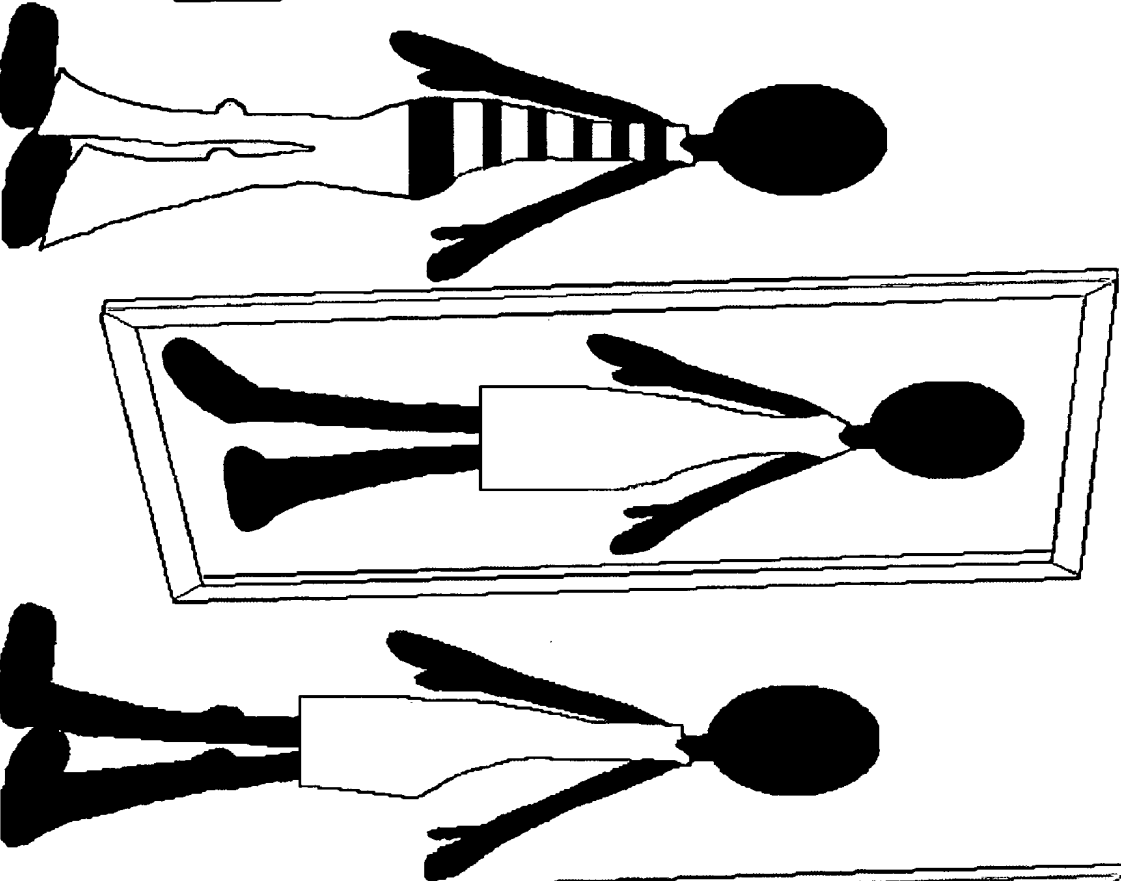
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Step 1



Step 2



Step3

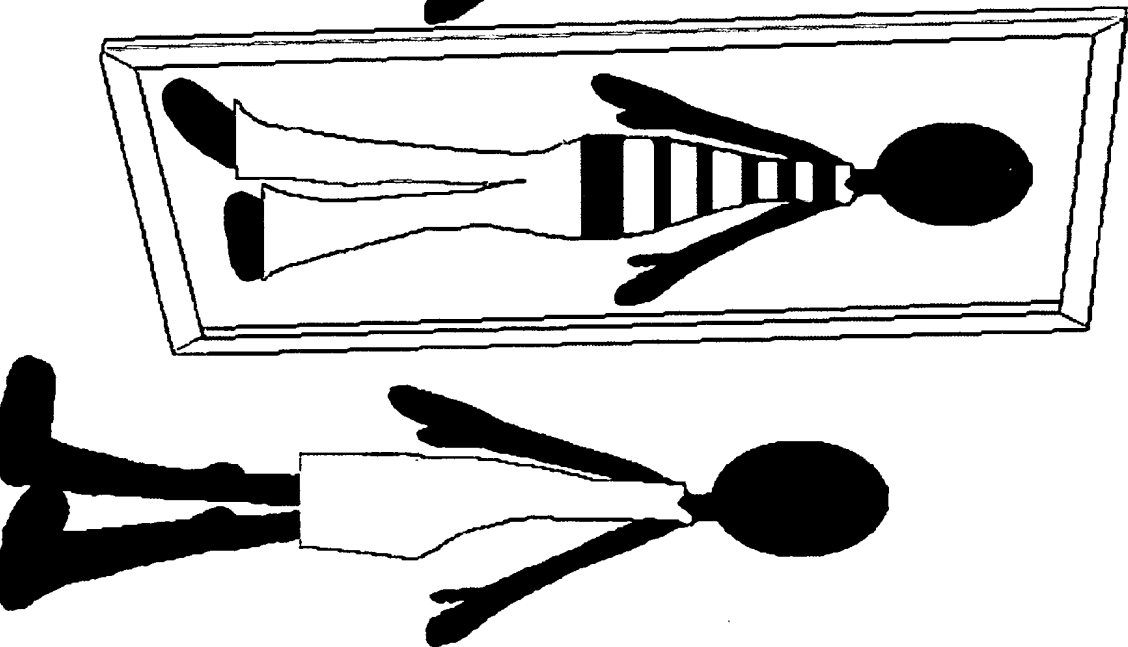


FIG 1

FIG 1A

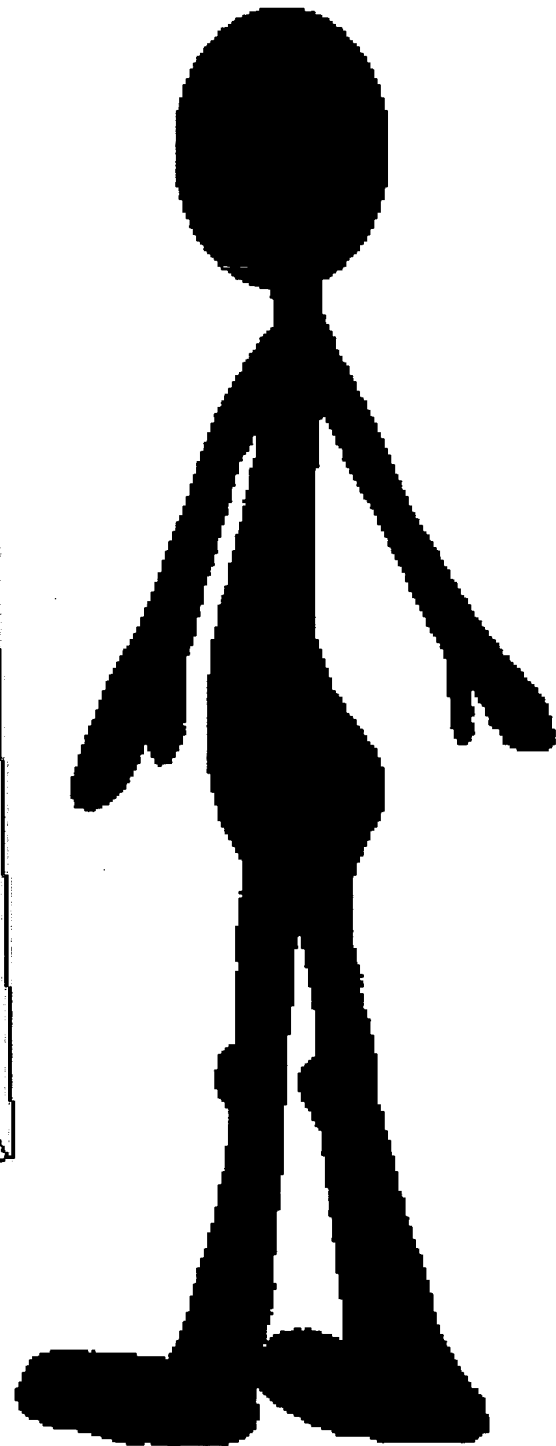
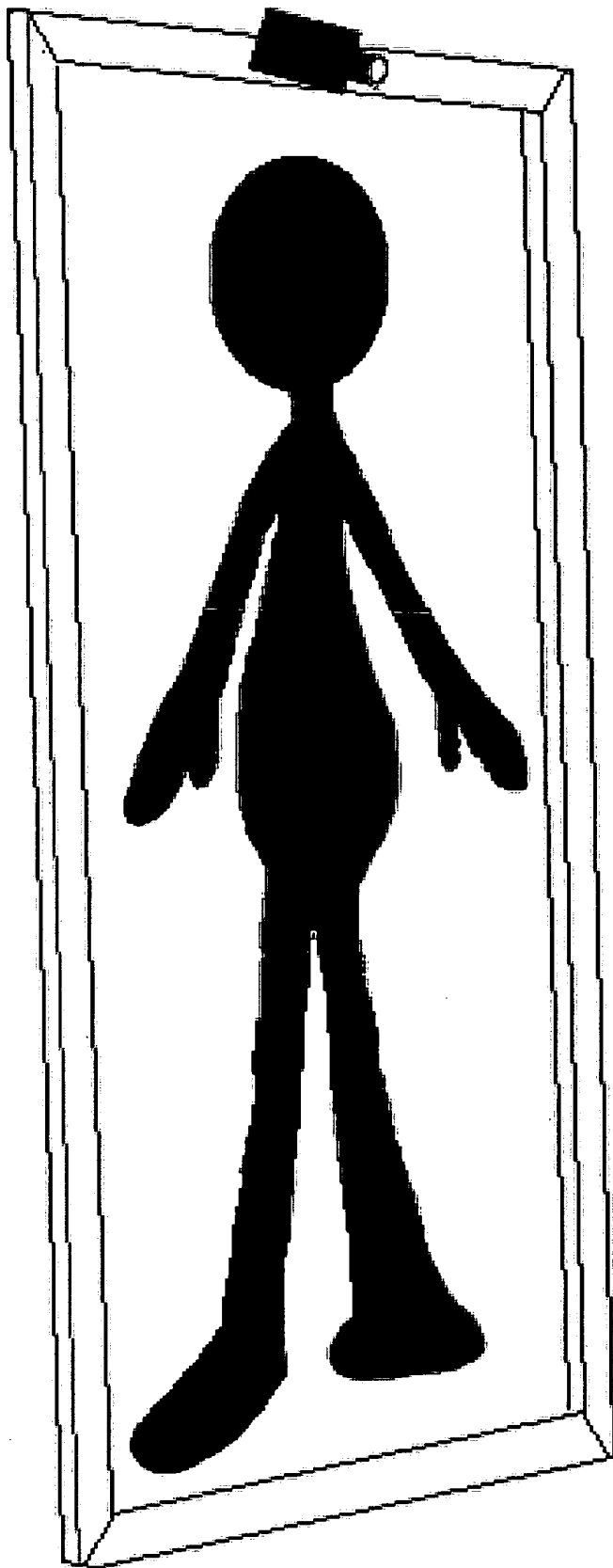


FIG 1B

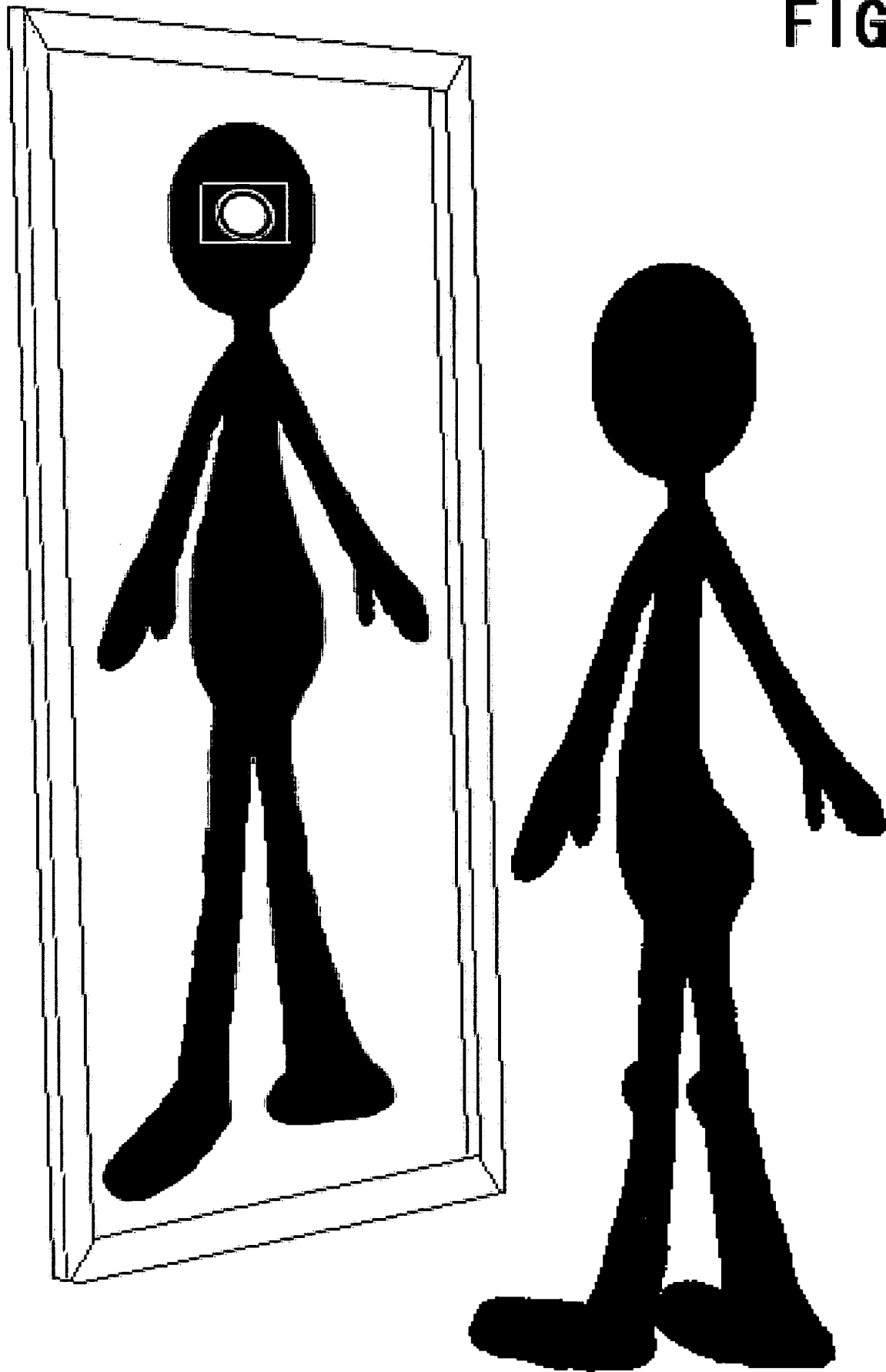


FIG 1C

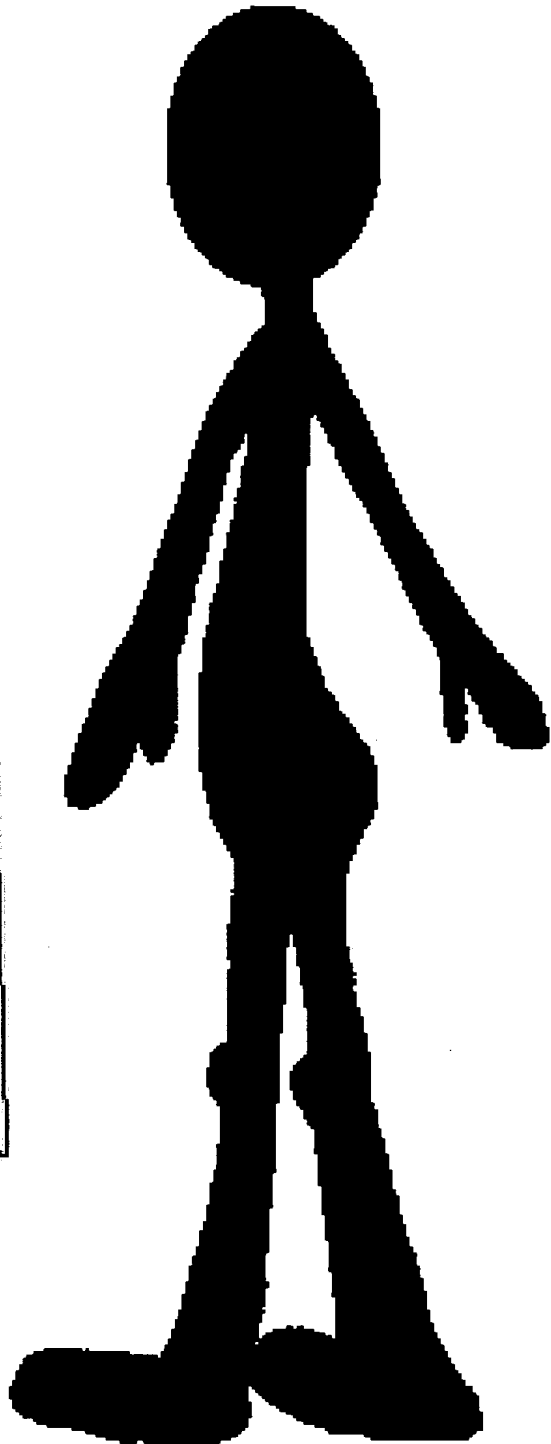
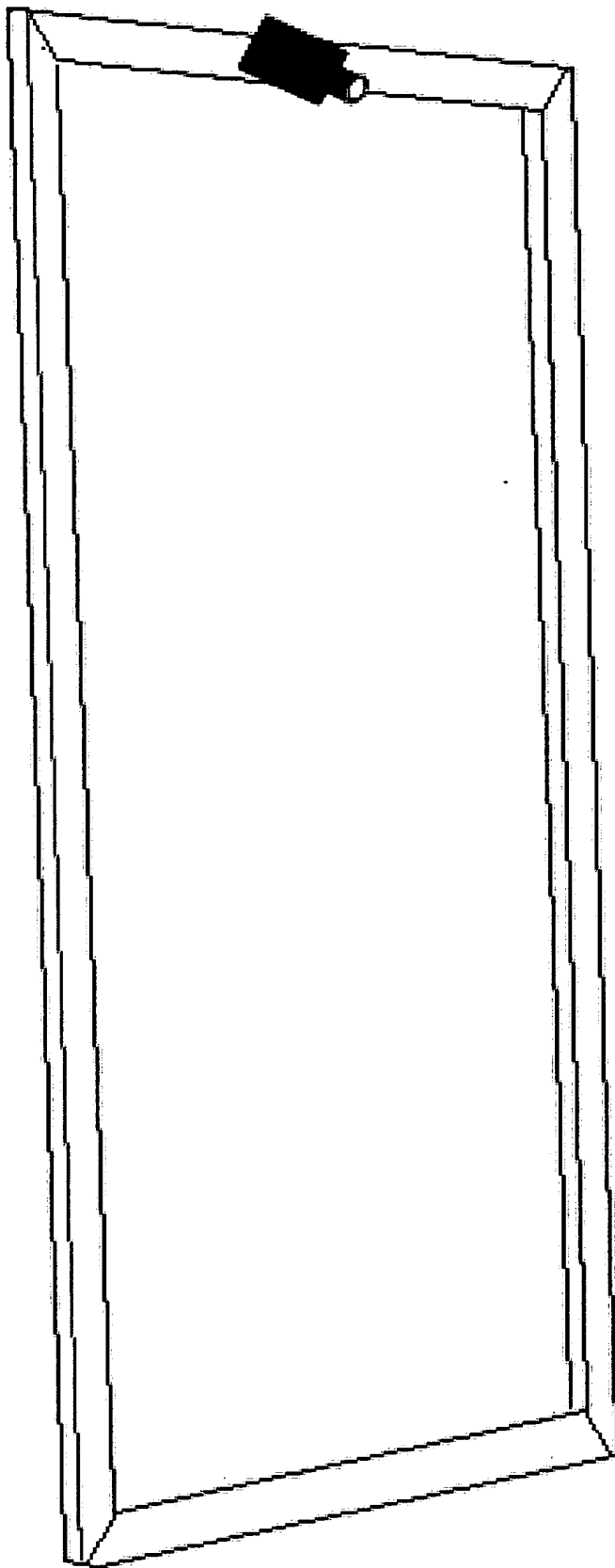


FIG 1E

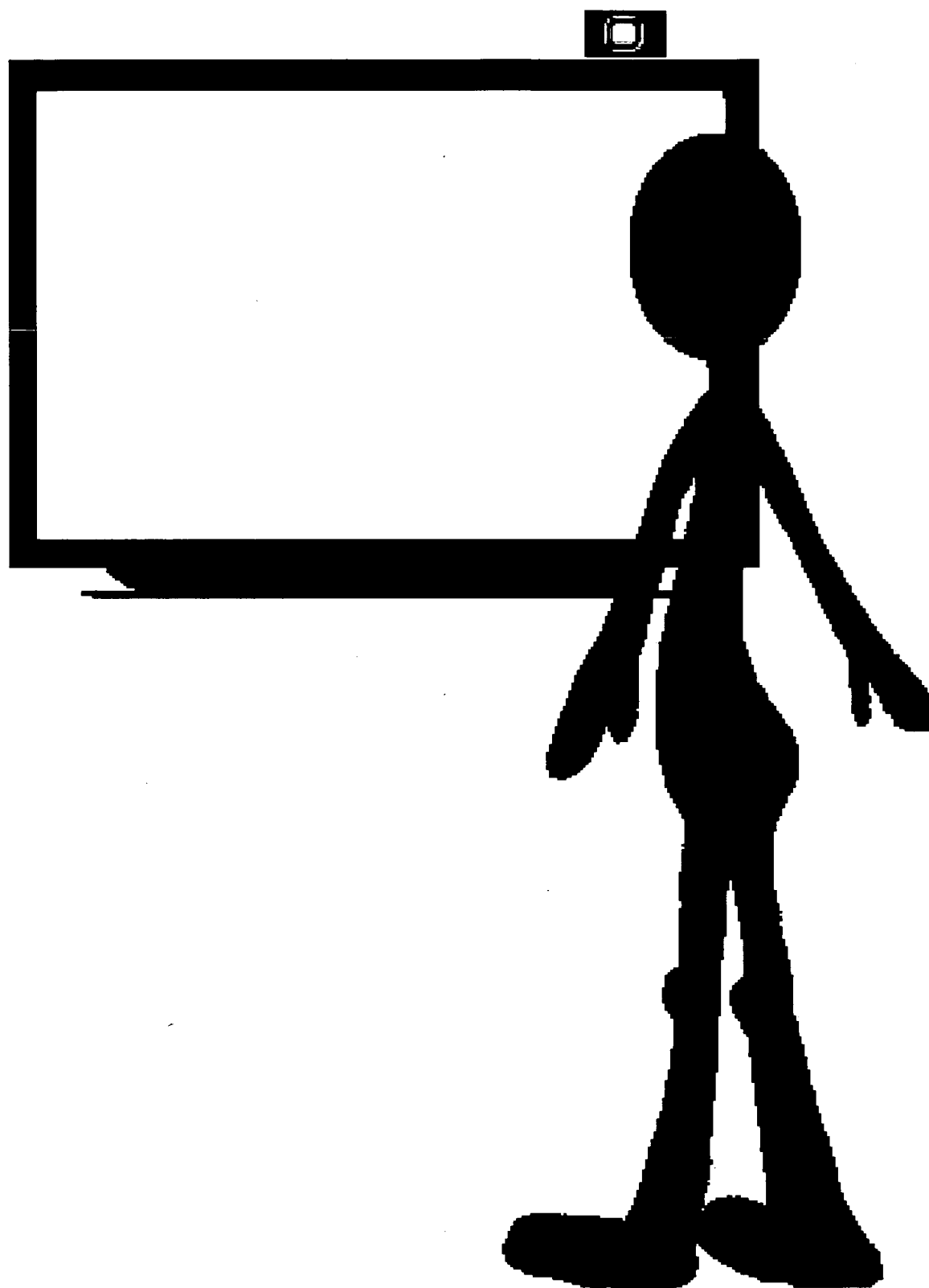
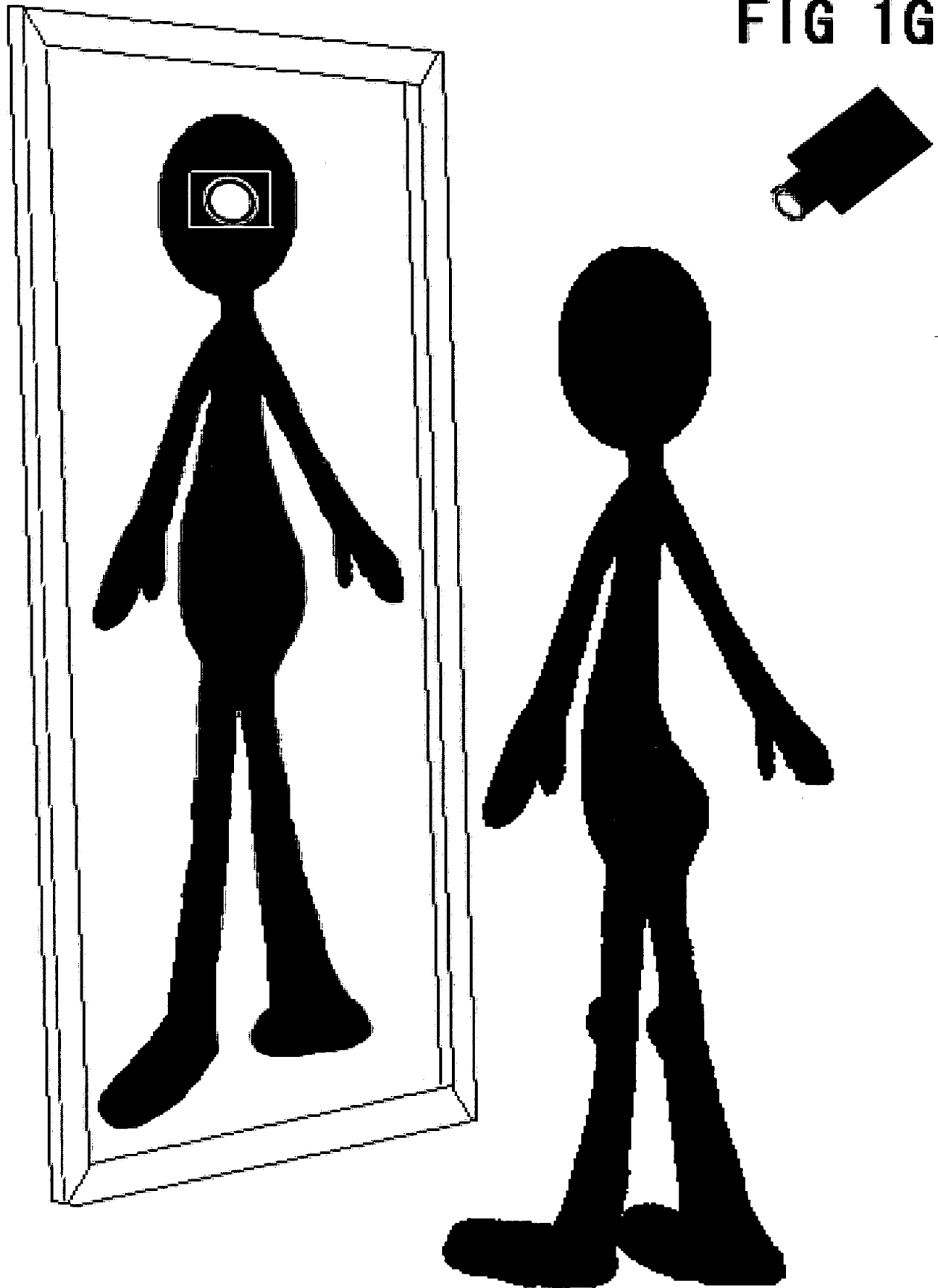
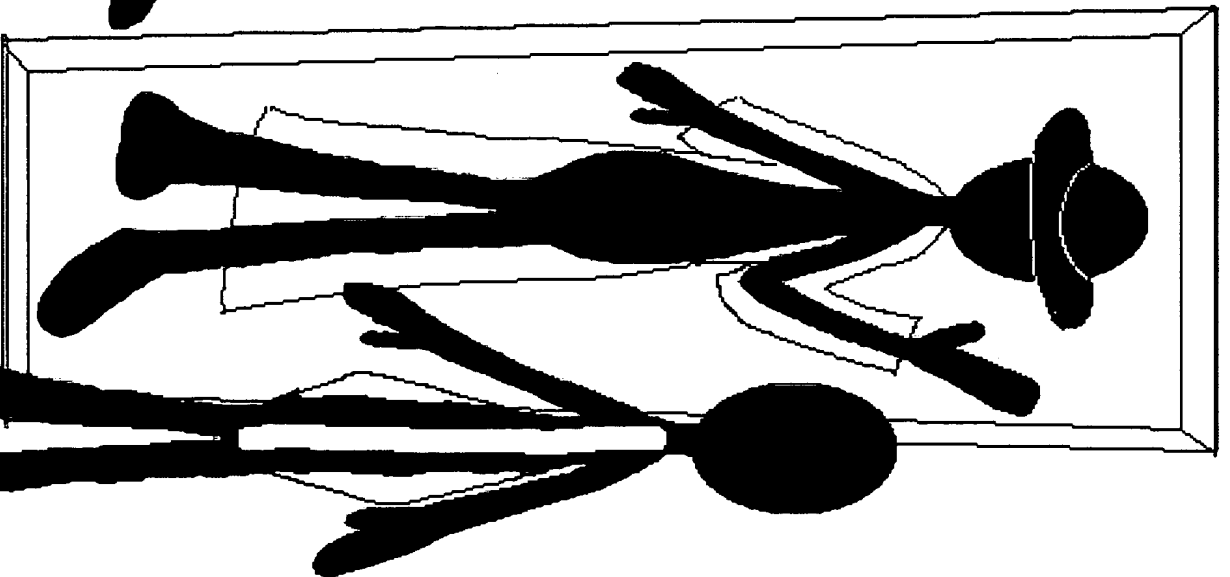
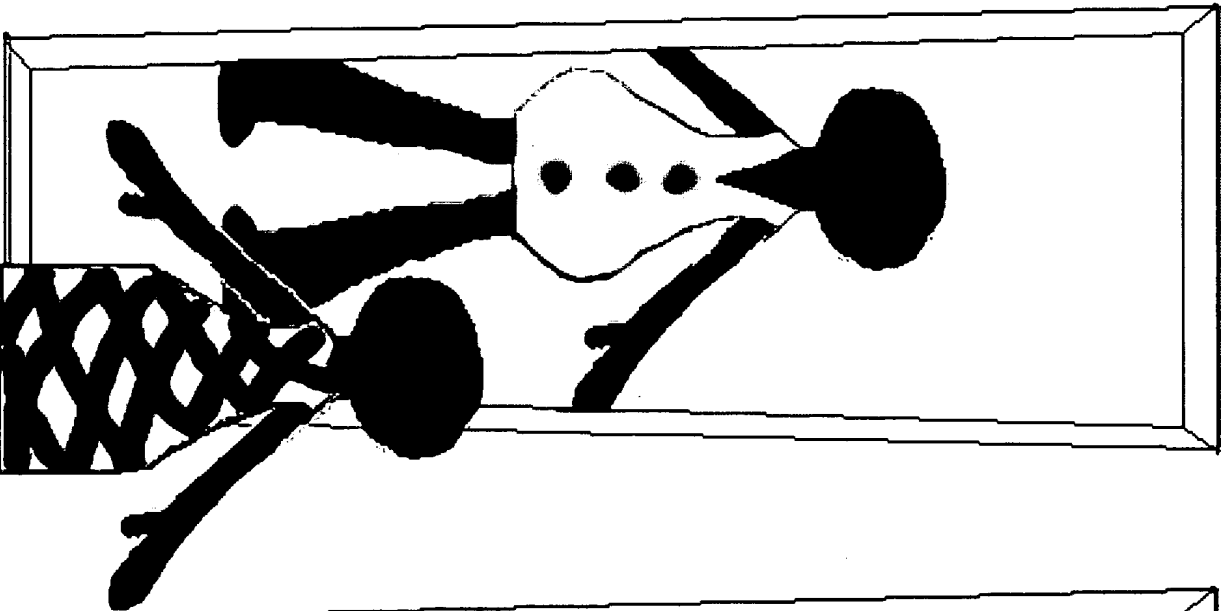
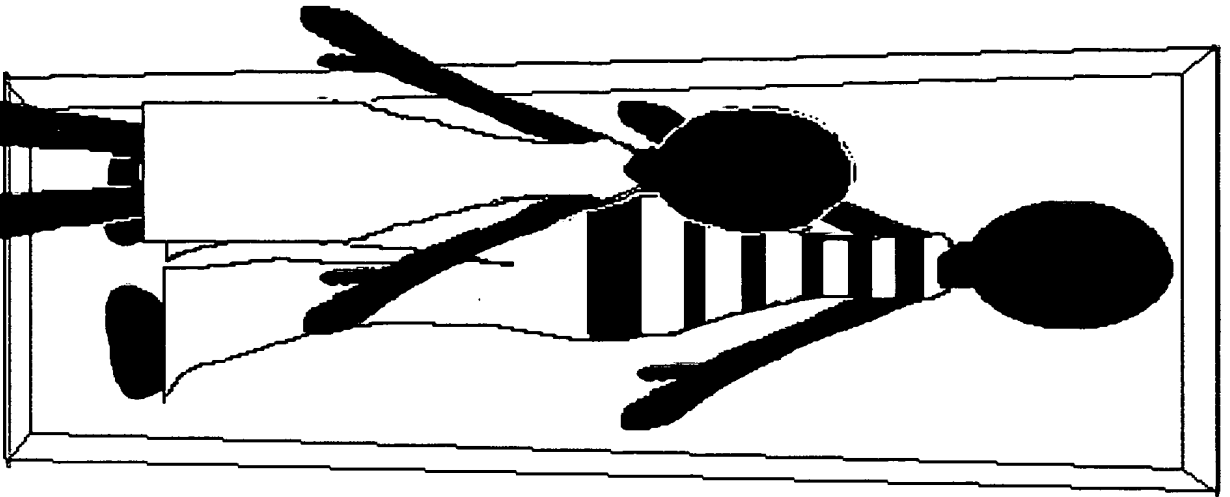


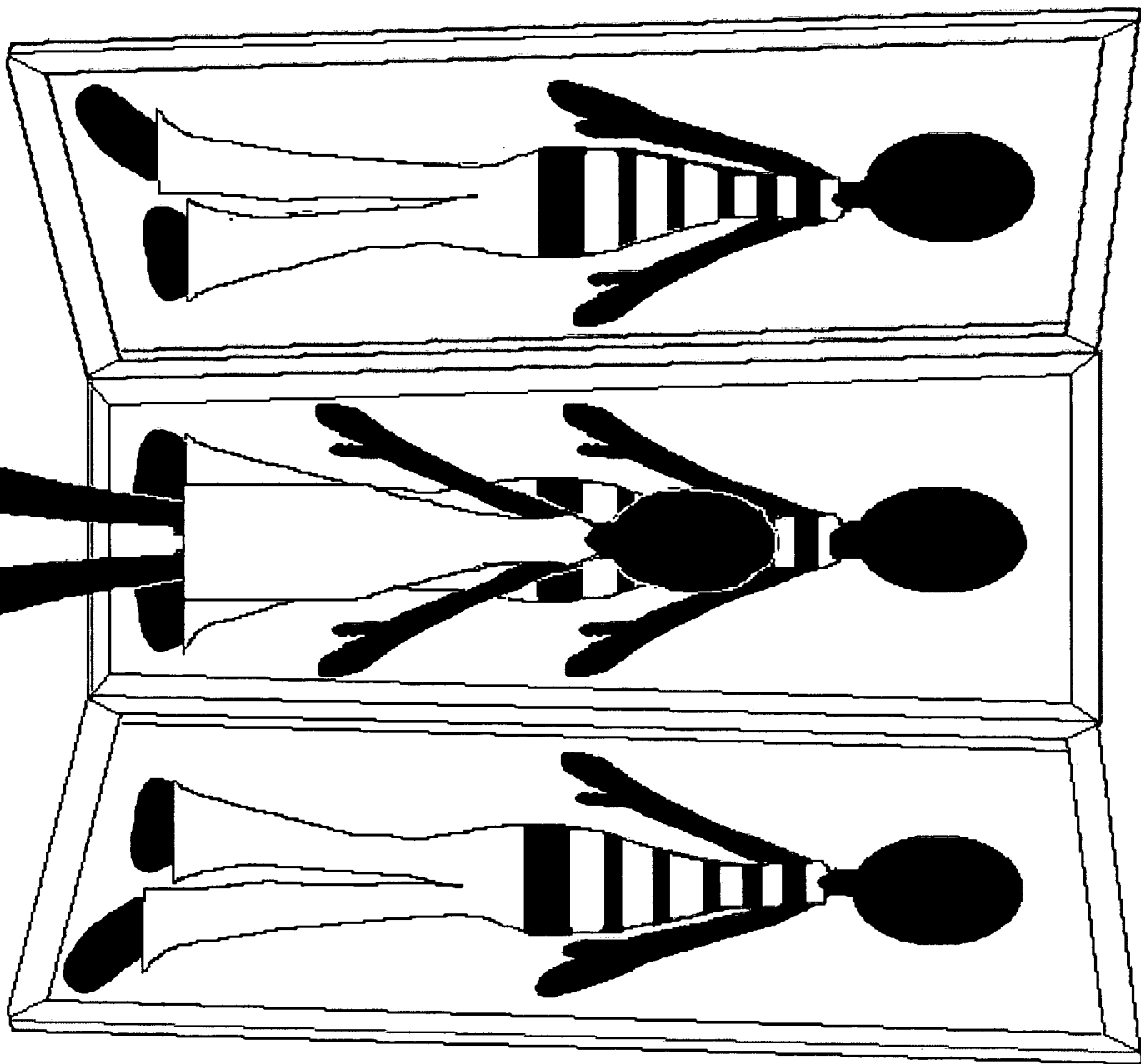
FIG 1F



FIG 1G







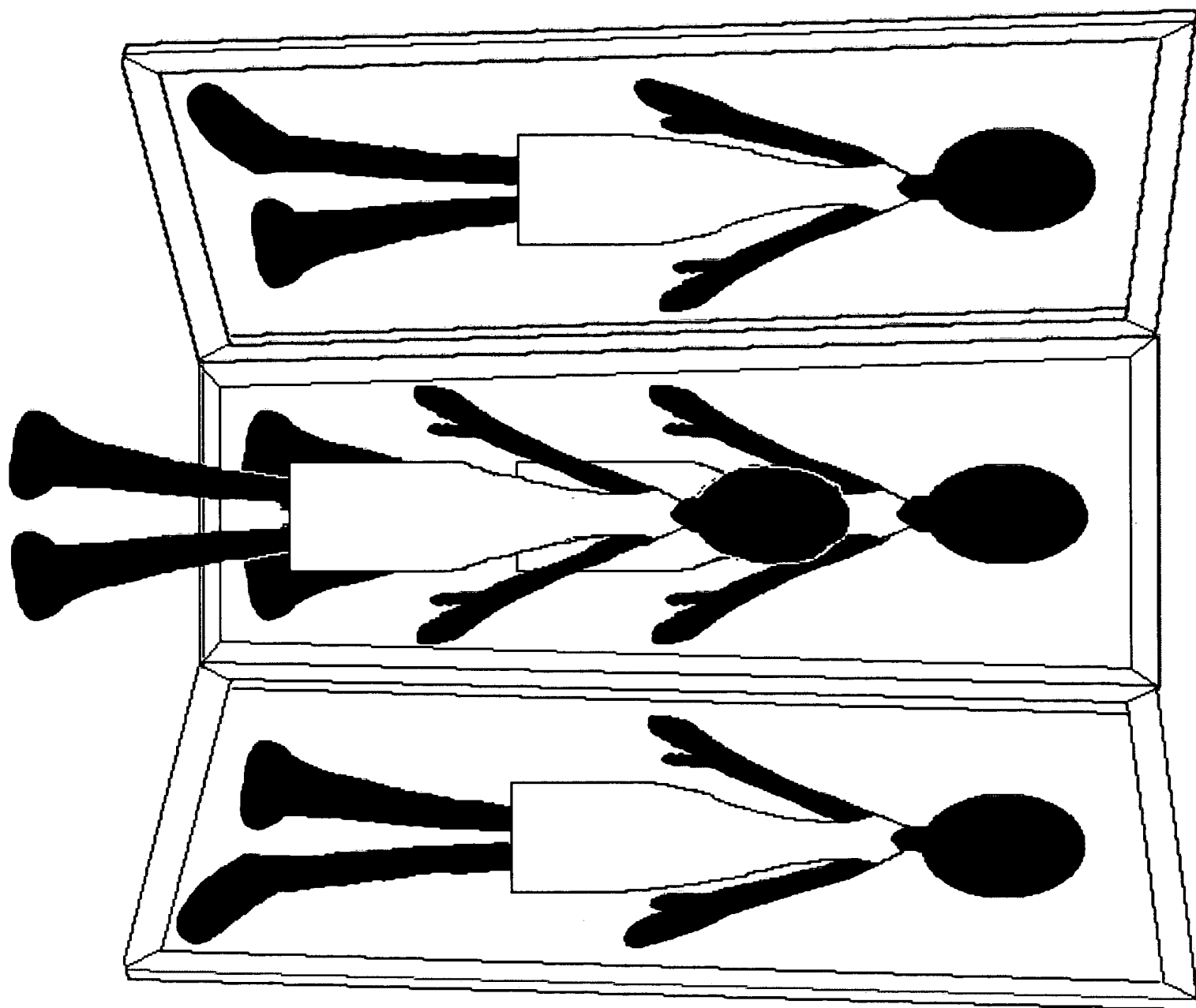


FIG 4A

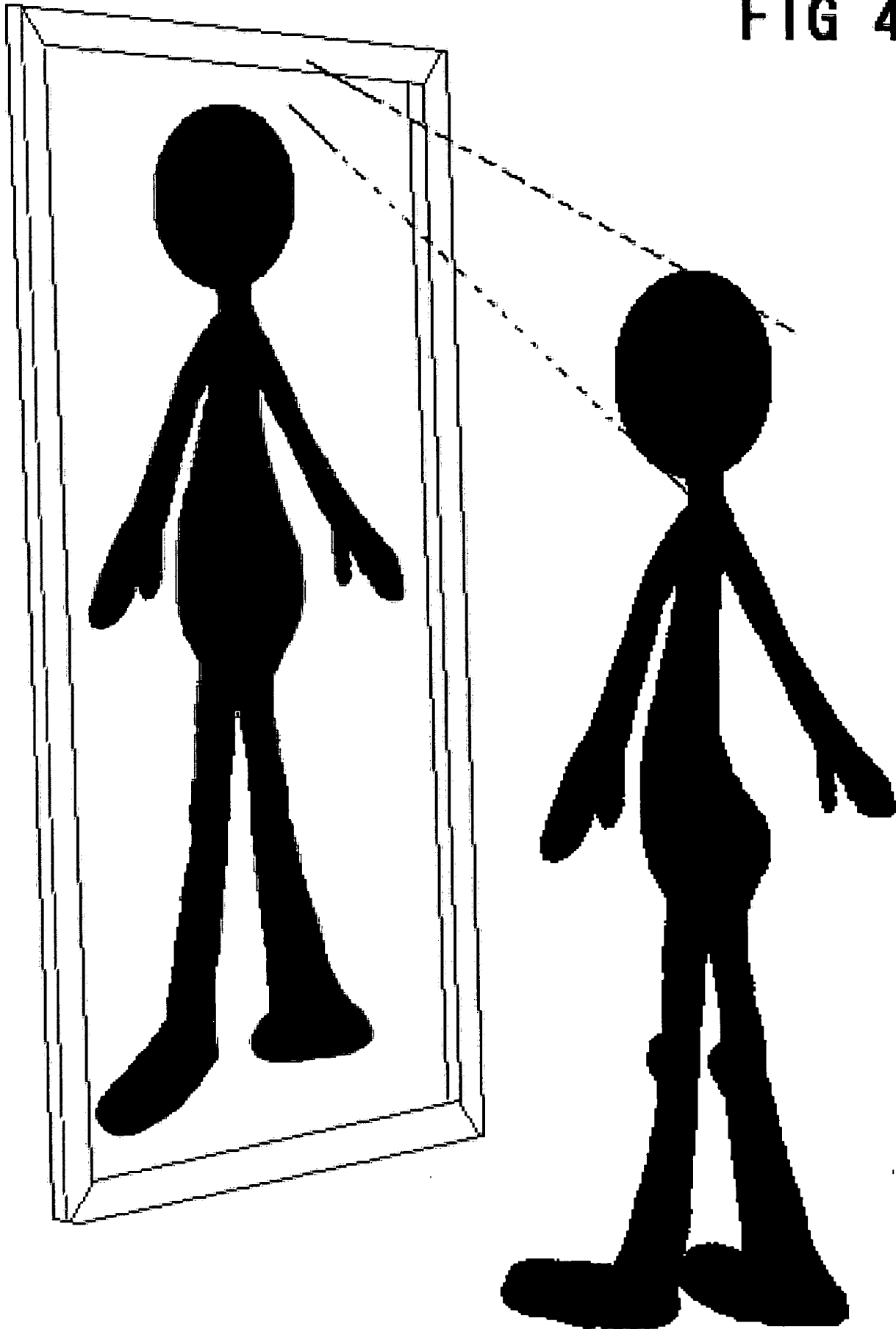


FIG 4B

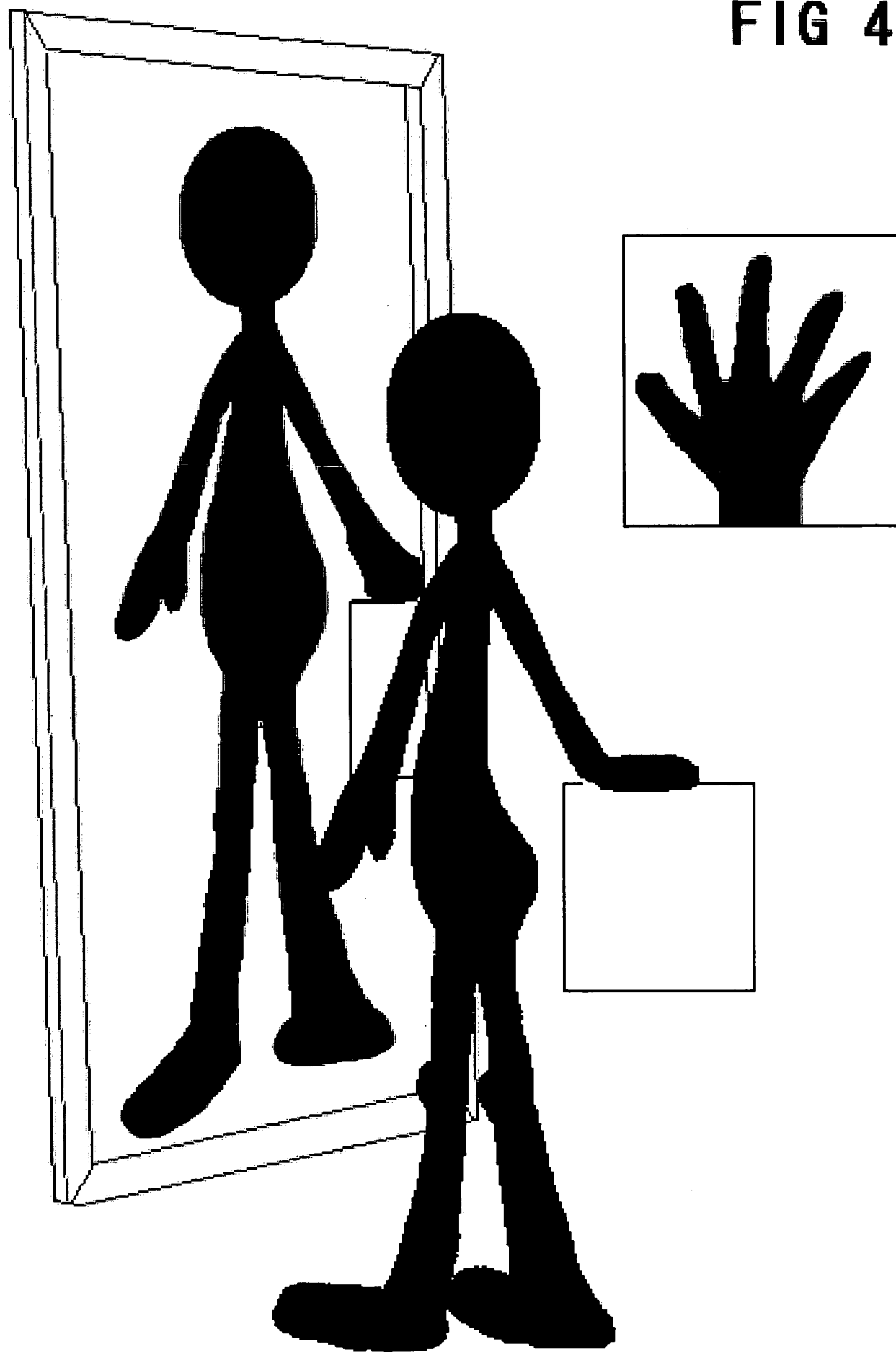


FIG 4C

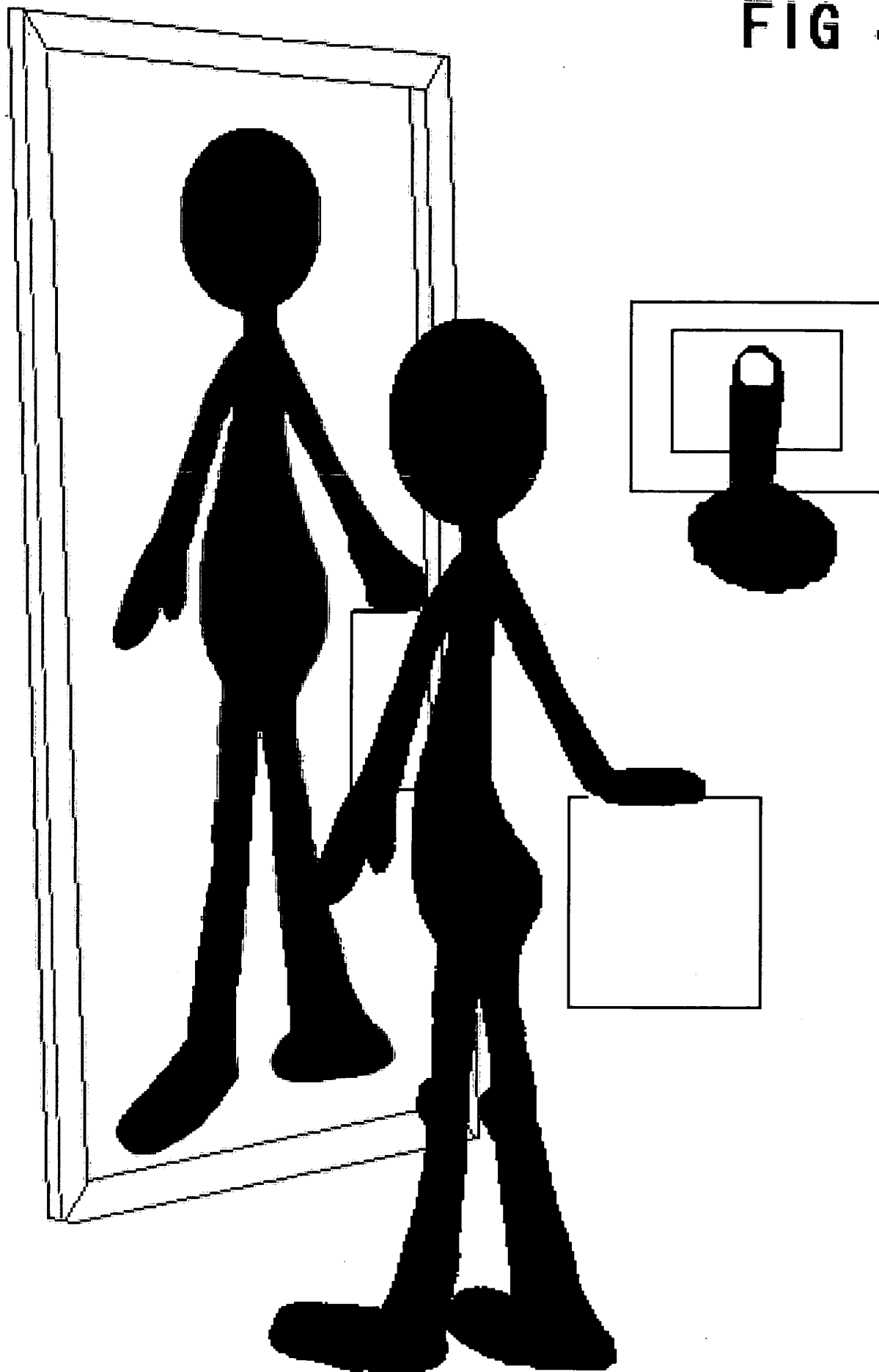


FIG 4D

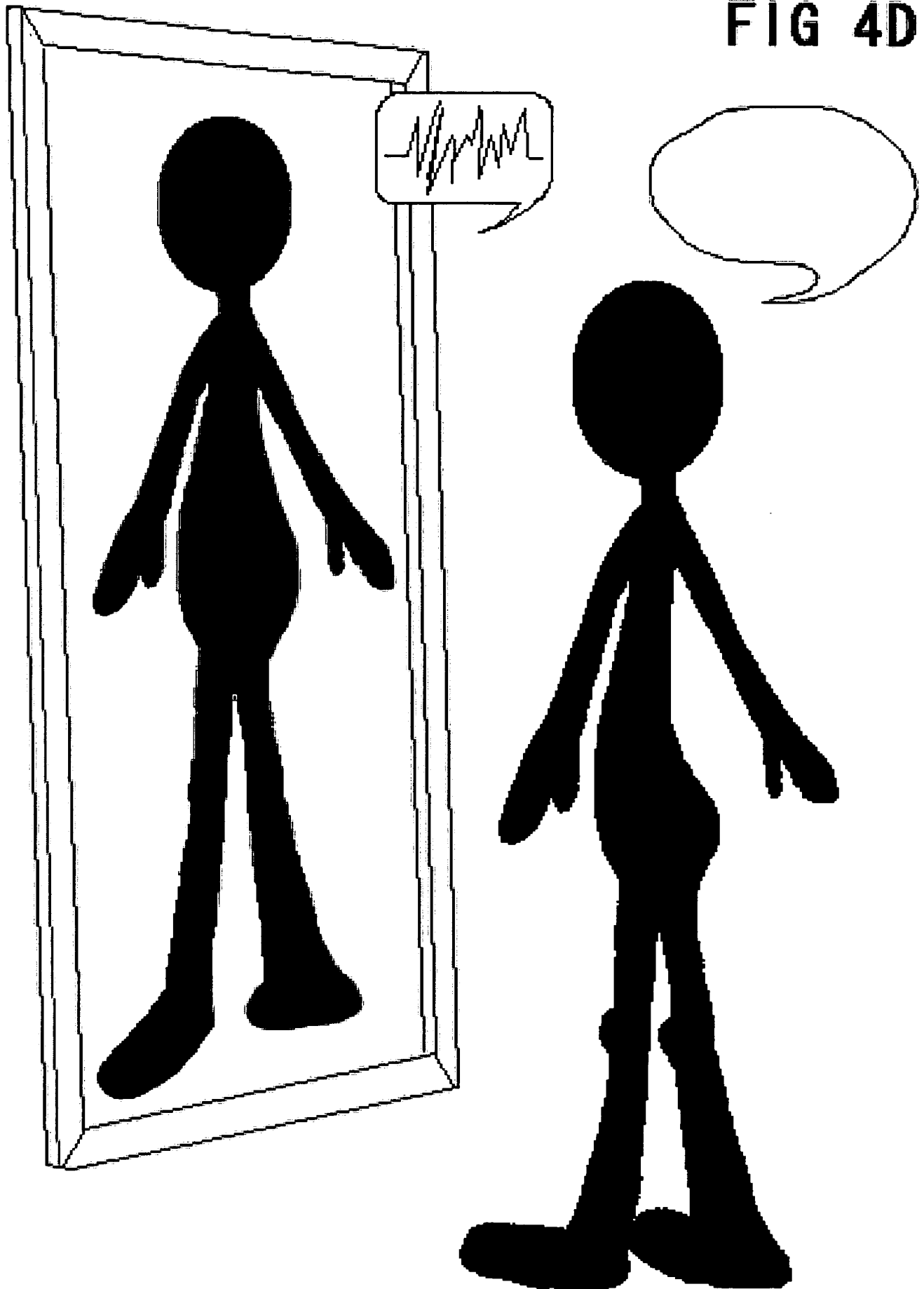


FIG 4E

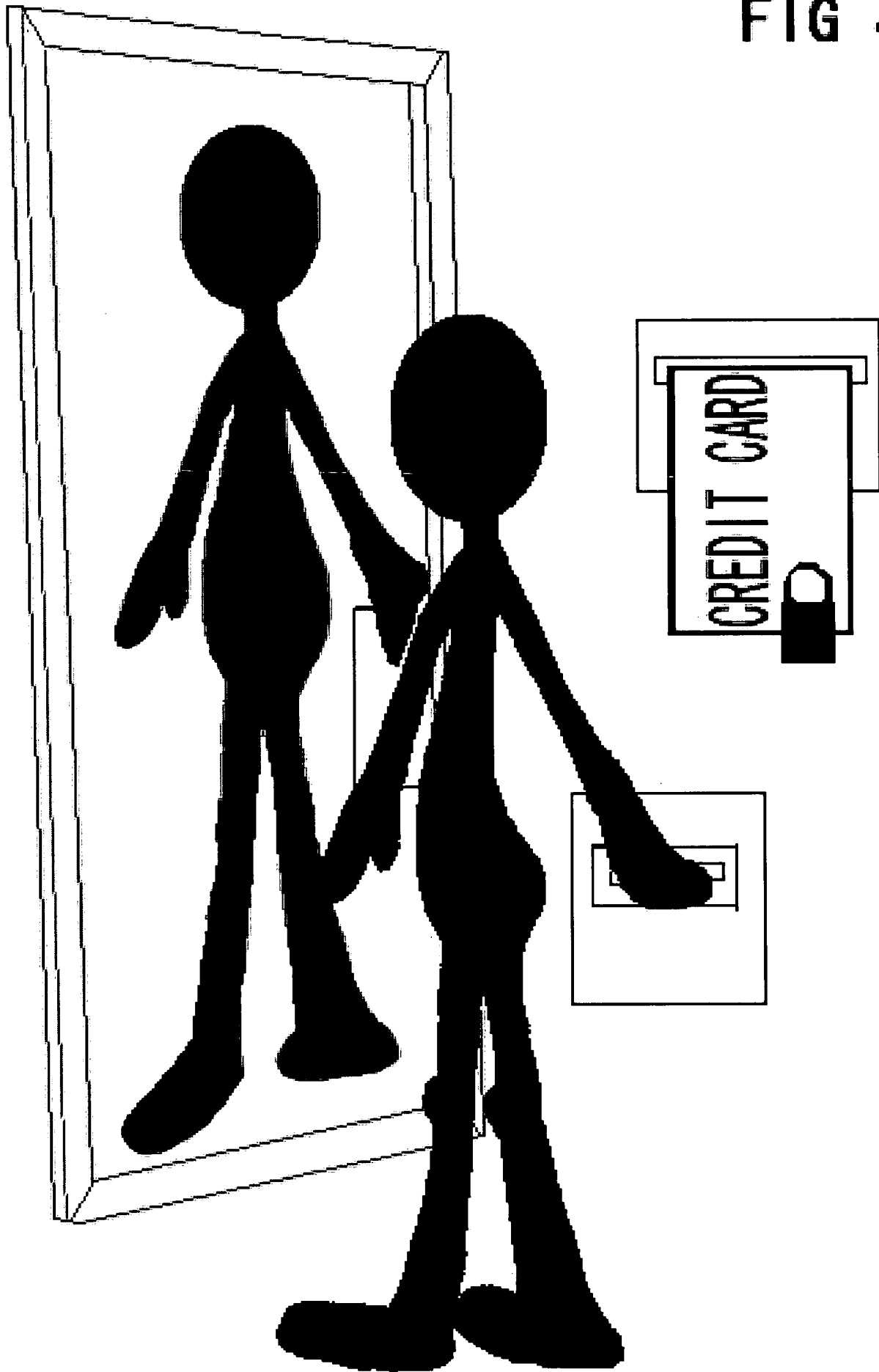


FIG 4F

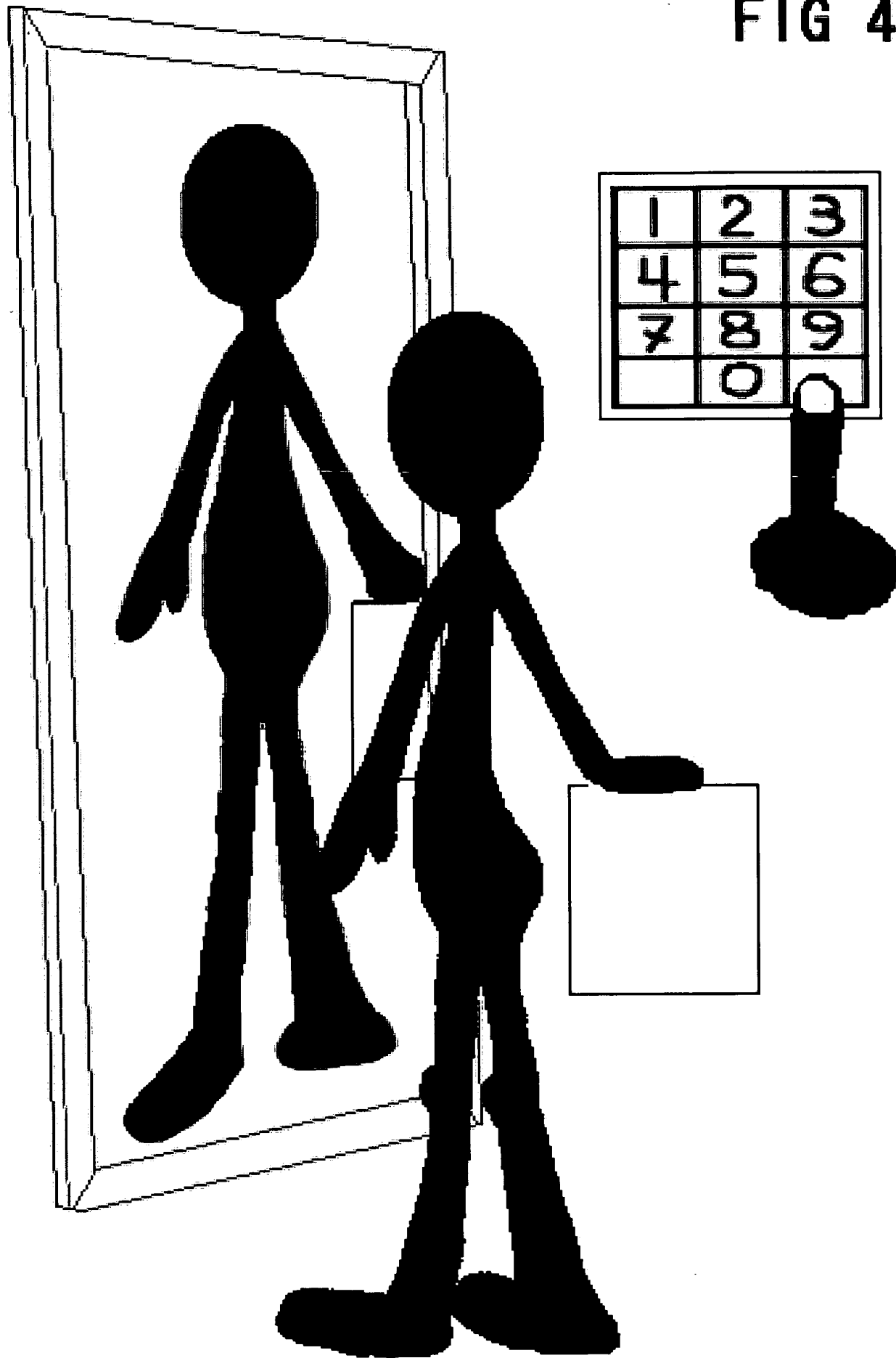


FIG 4G

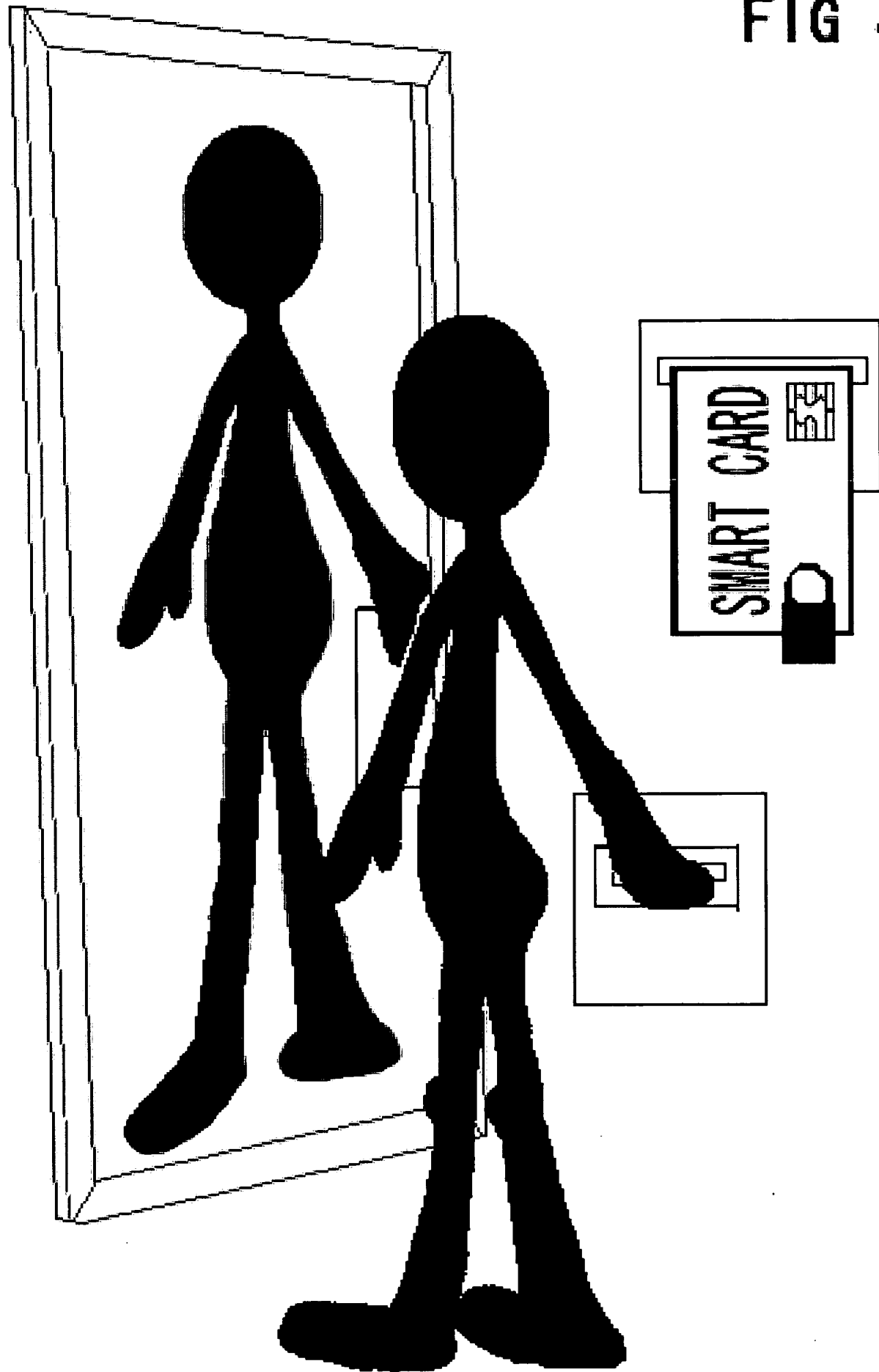


FIG 4H

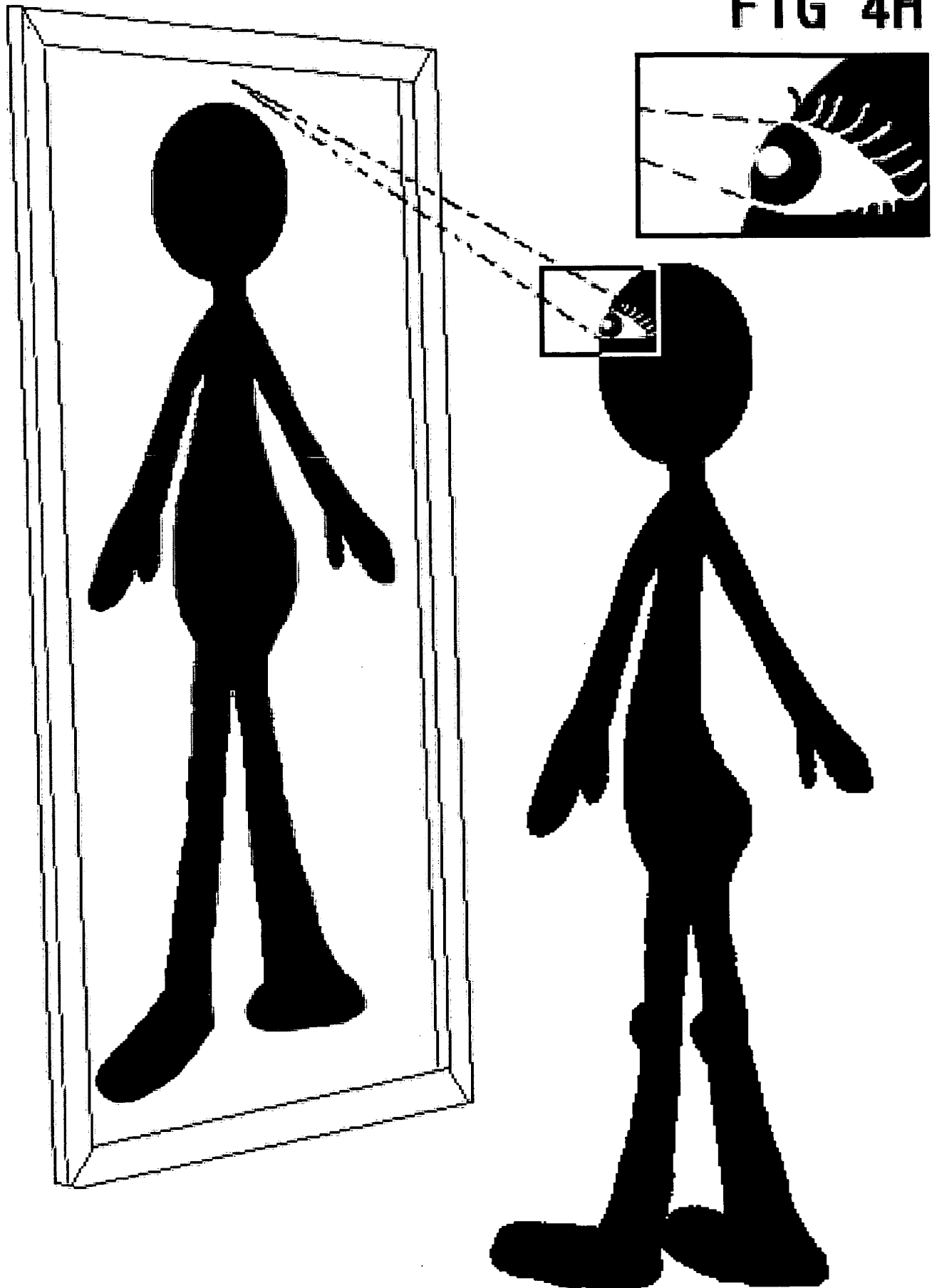


FIG 7A

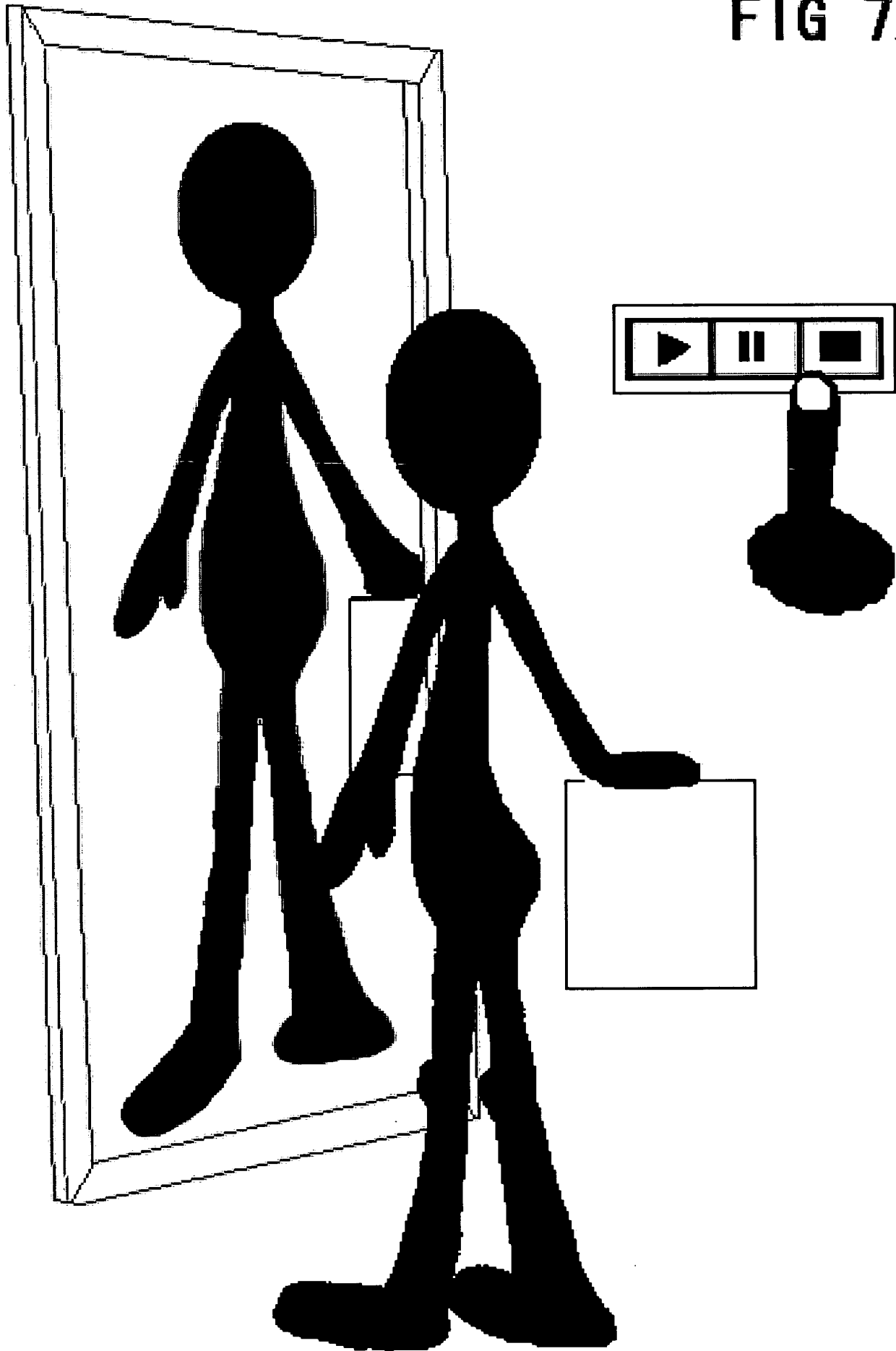


FIG 7B

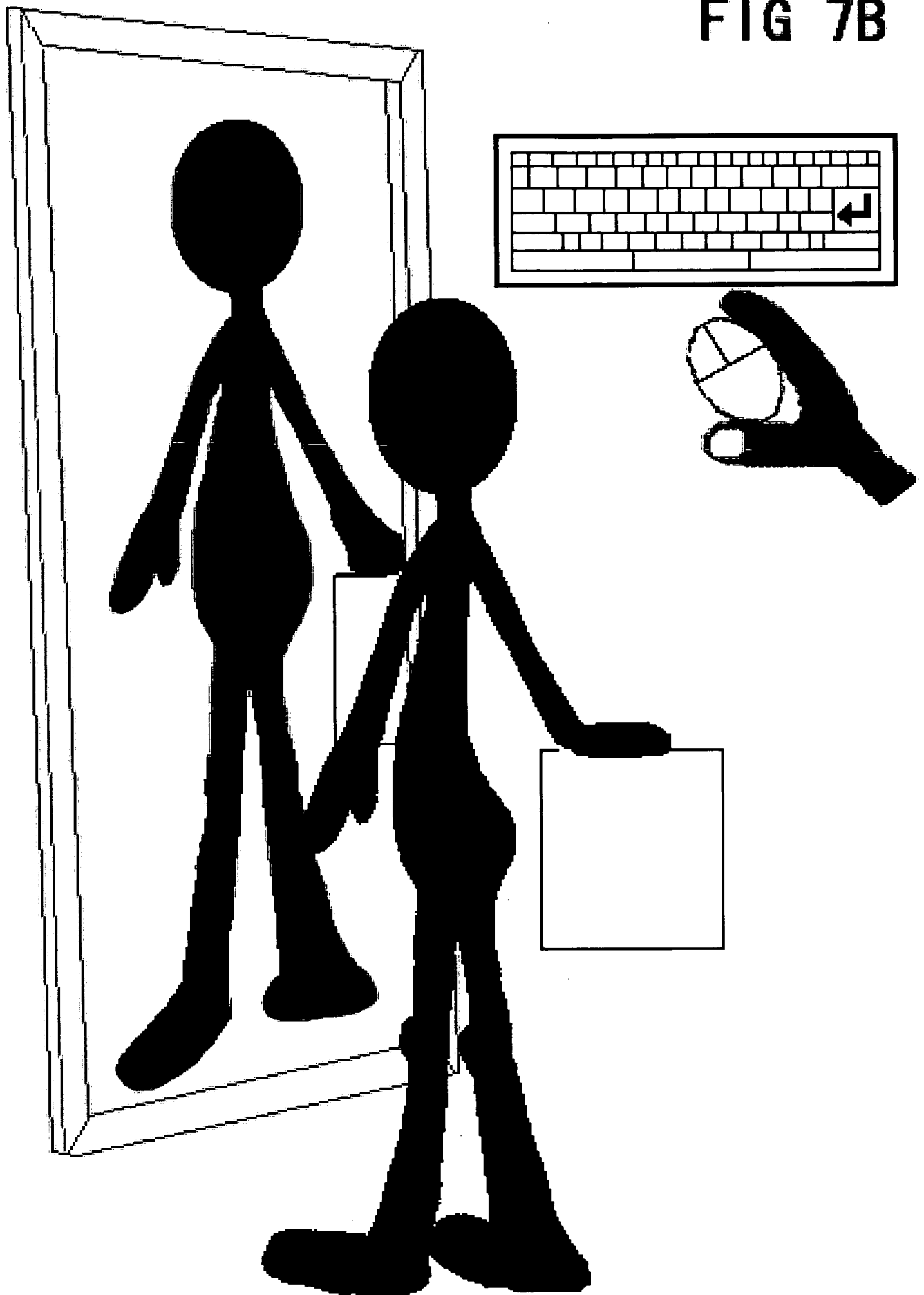


FIG 7C

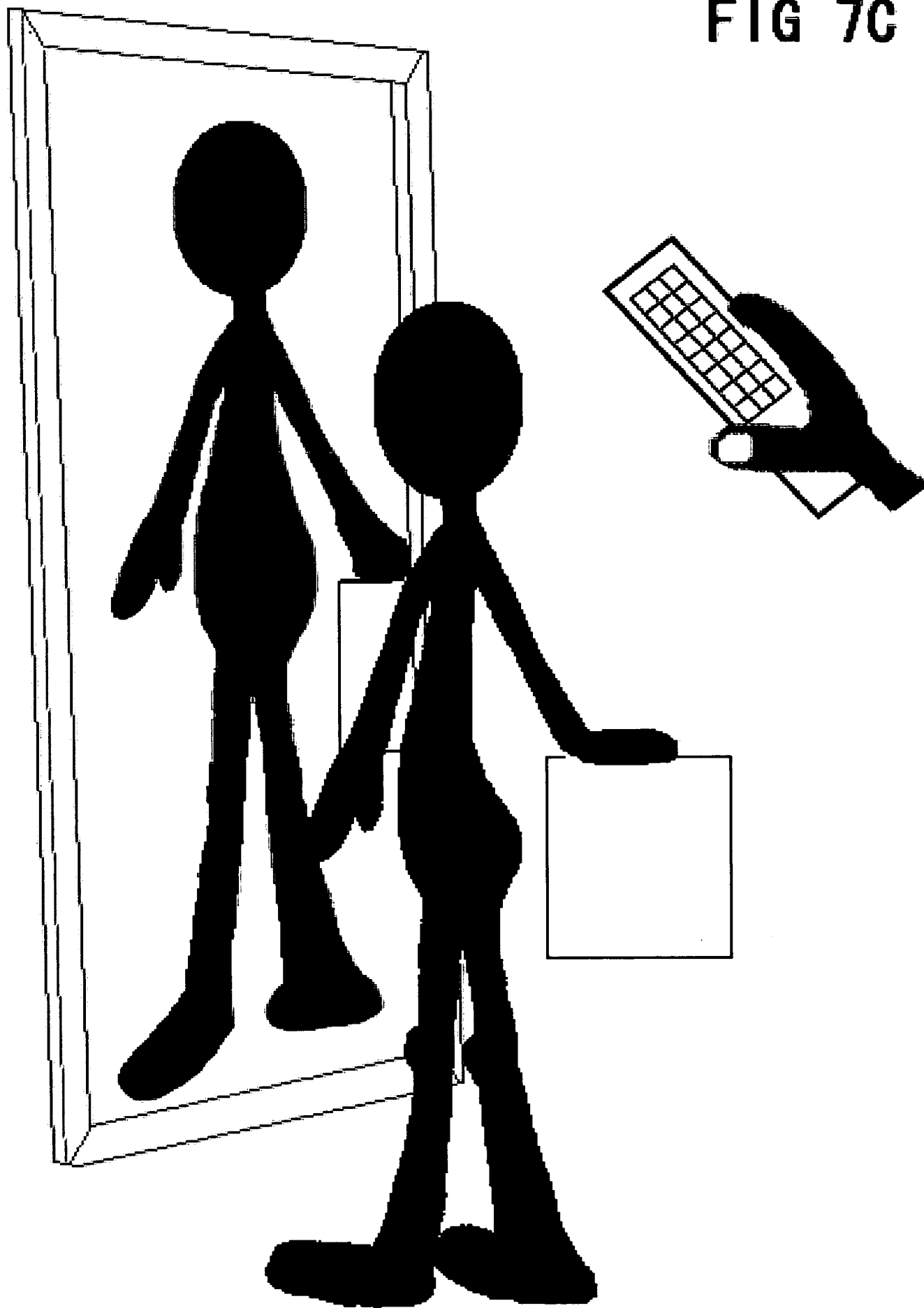
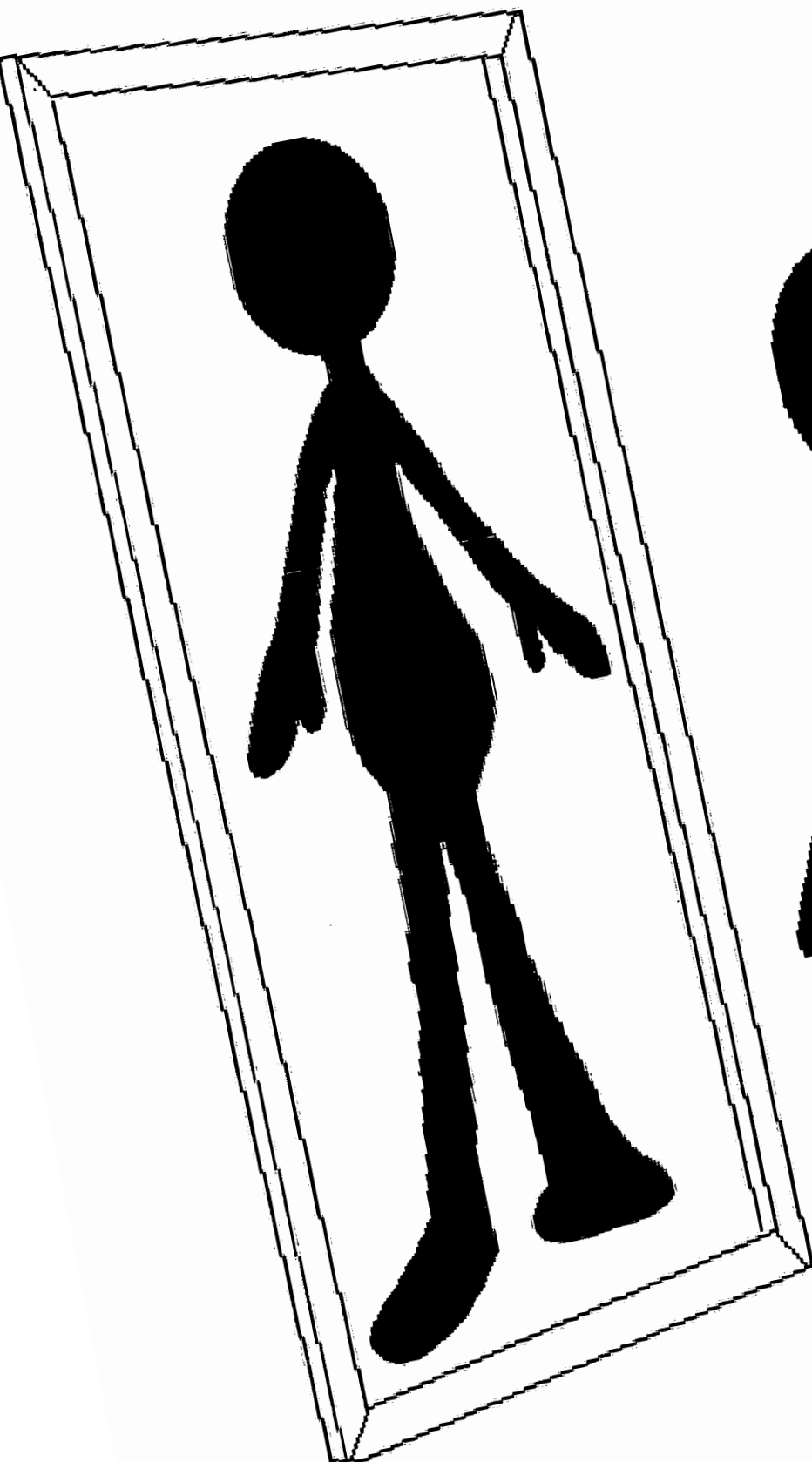


FIG 1D



start
pause
stop....



FIG 7E

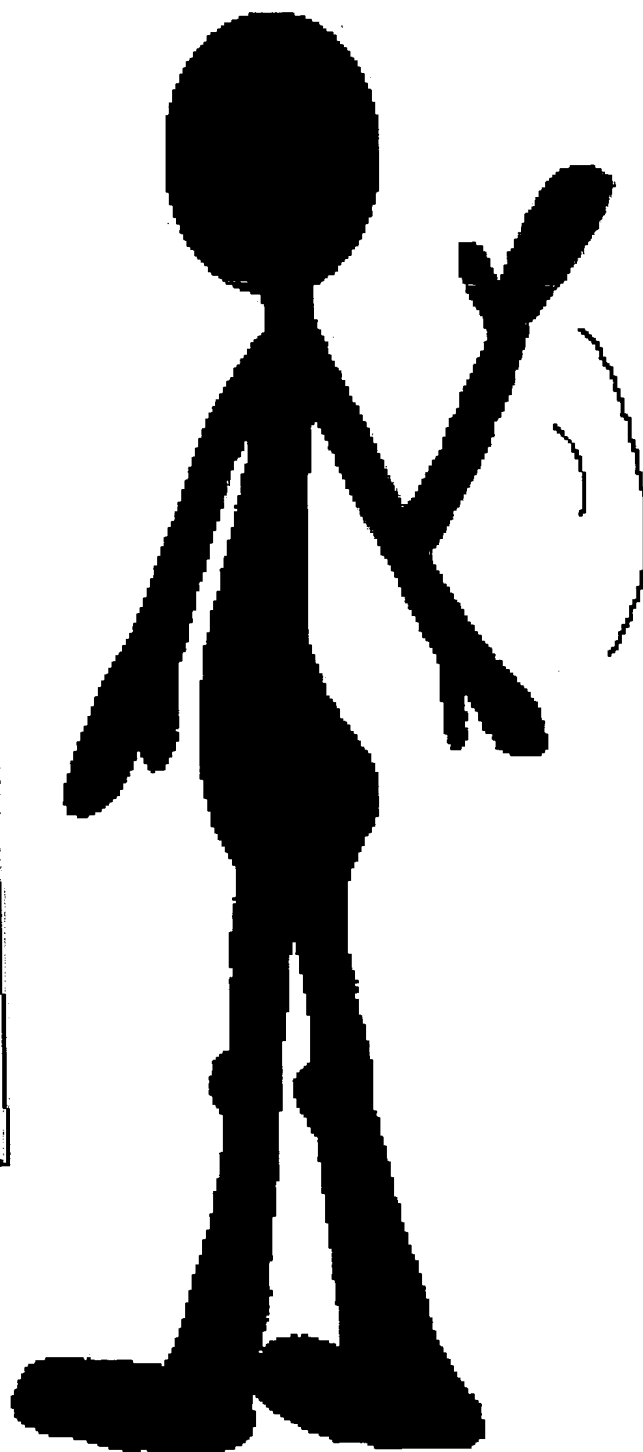
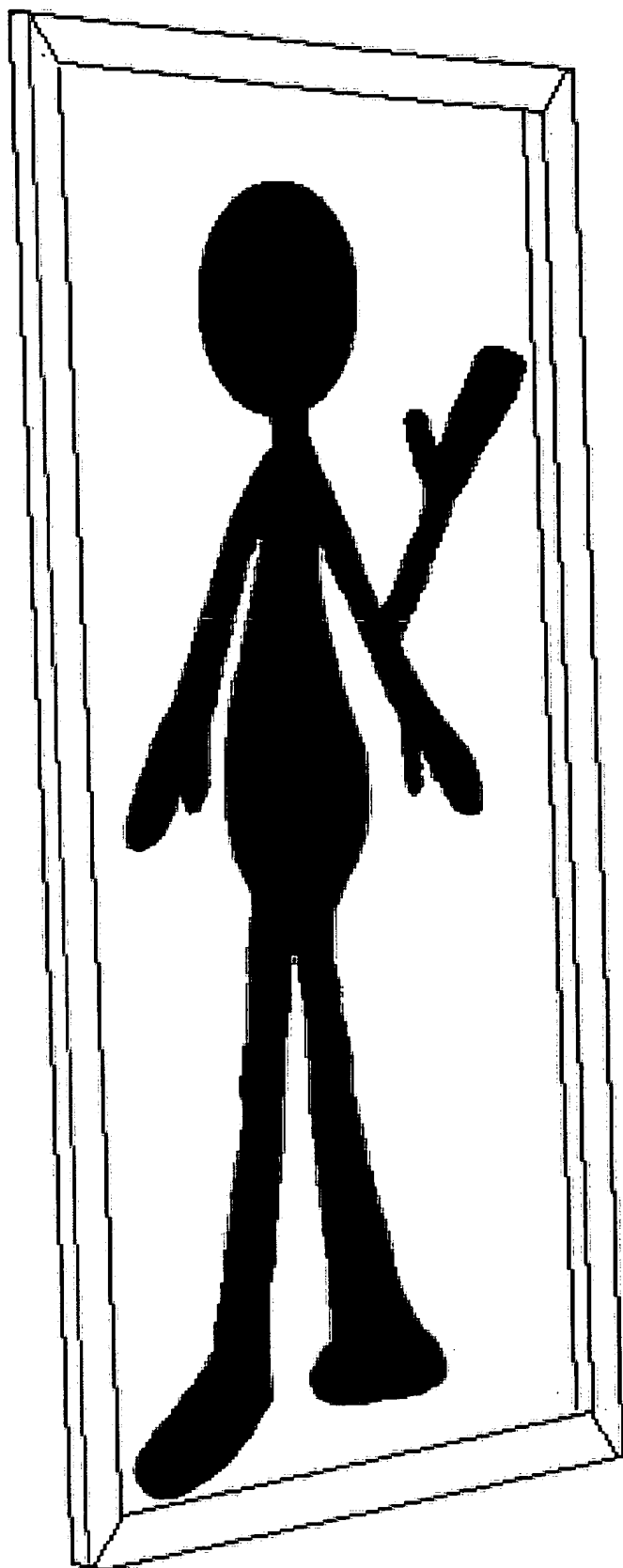


FIG 7F

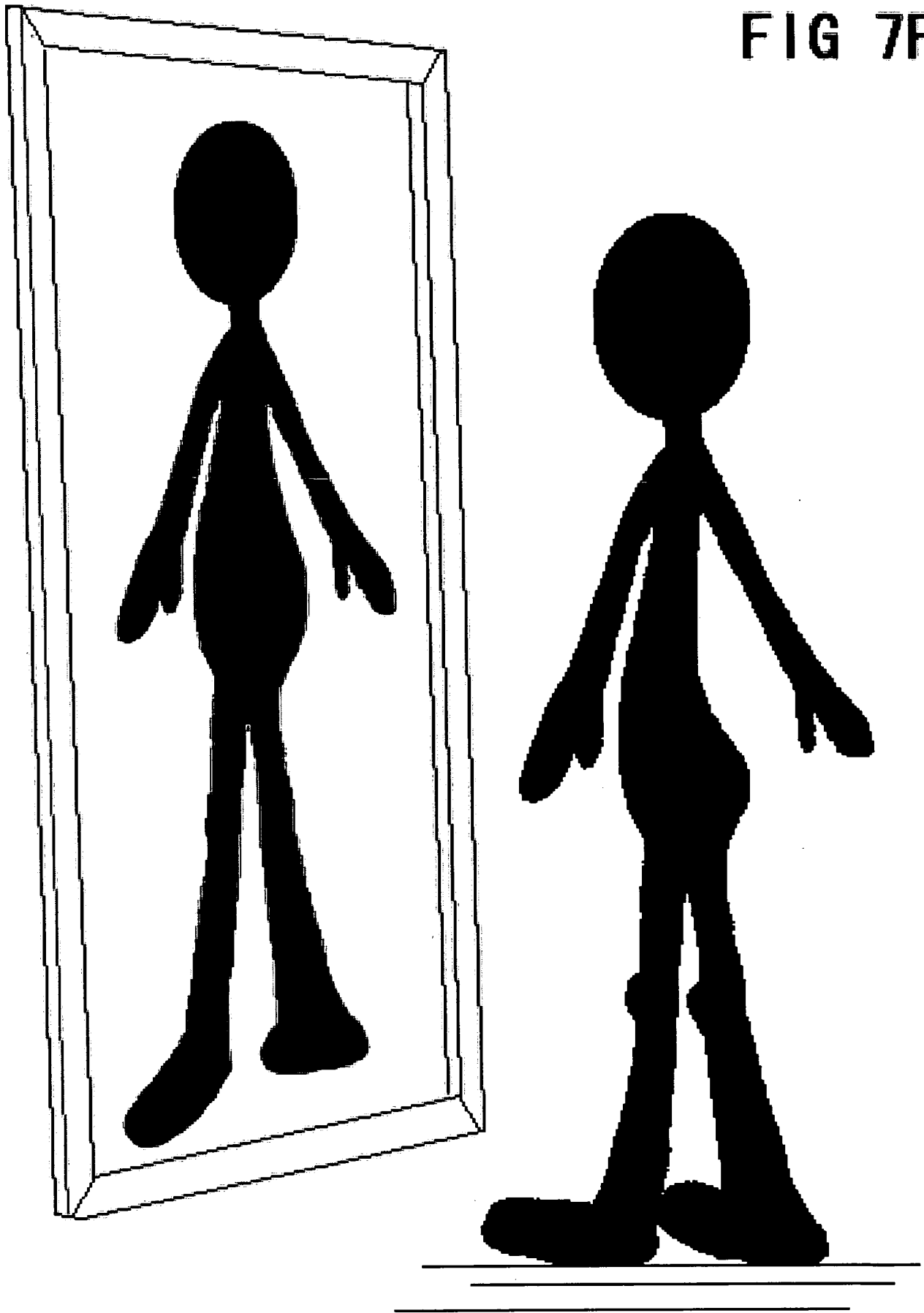


FIG 7G

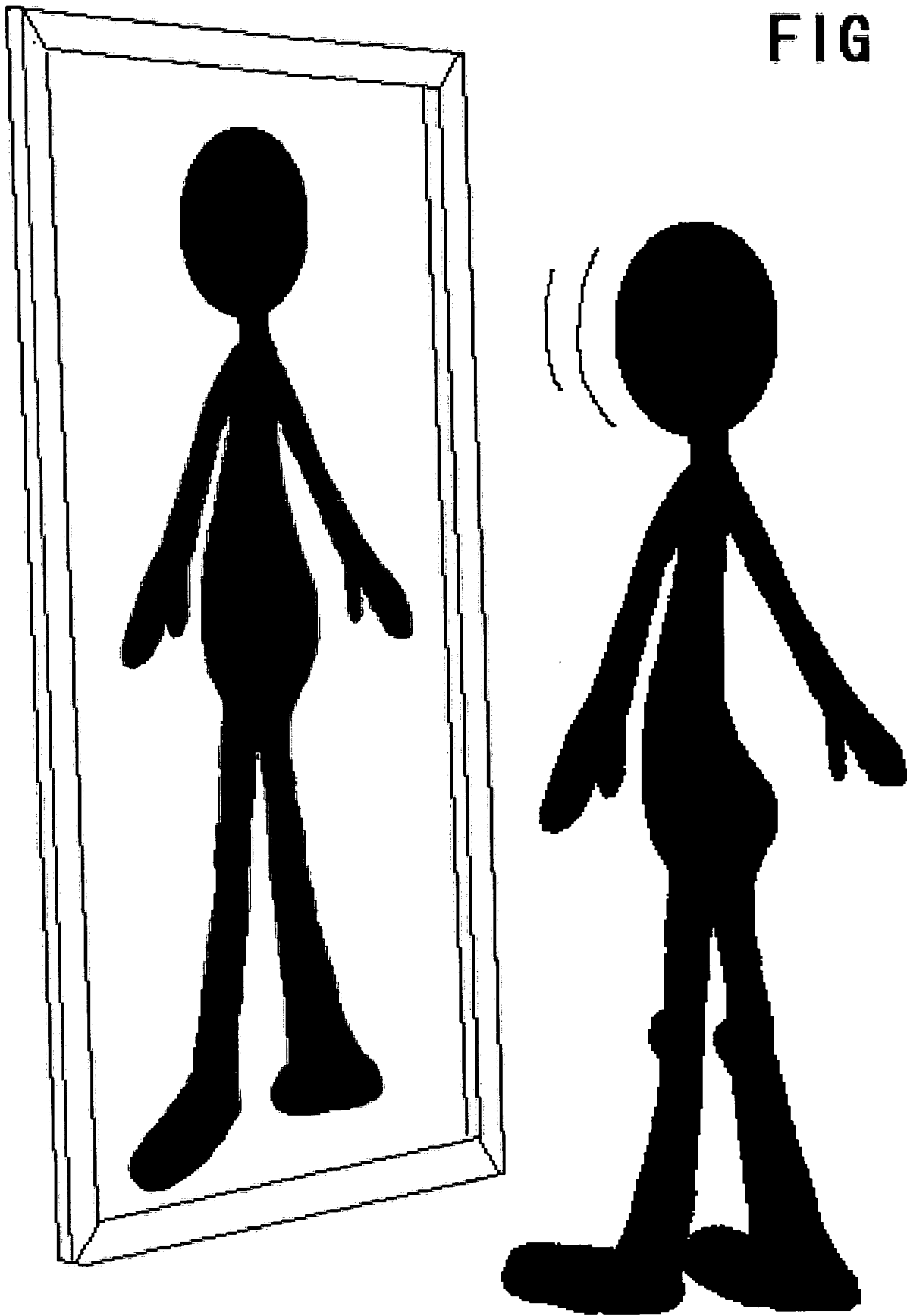
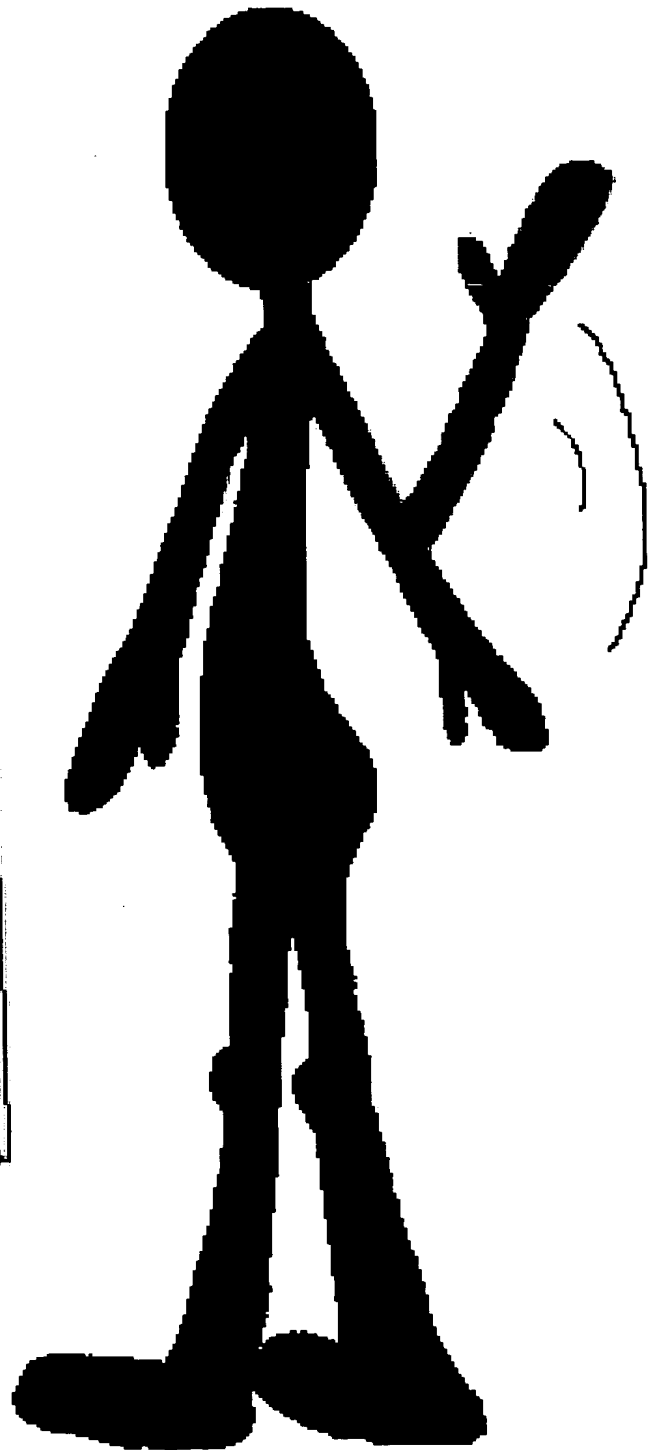
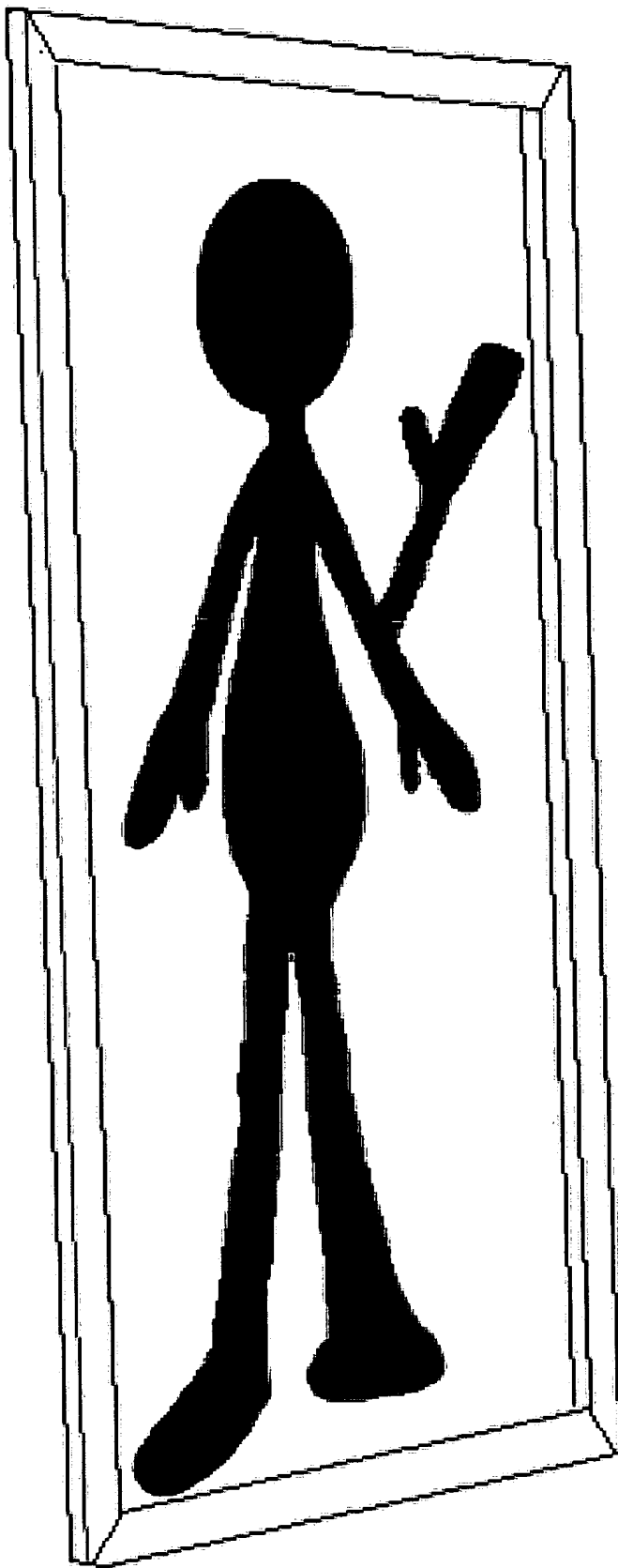
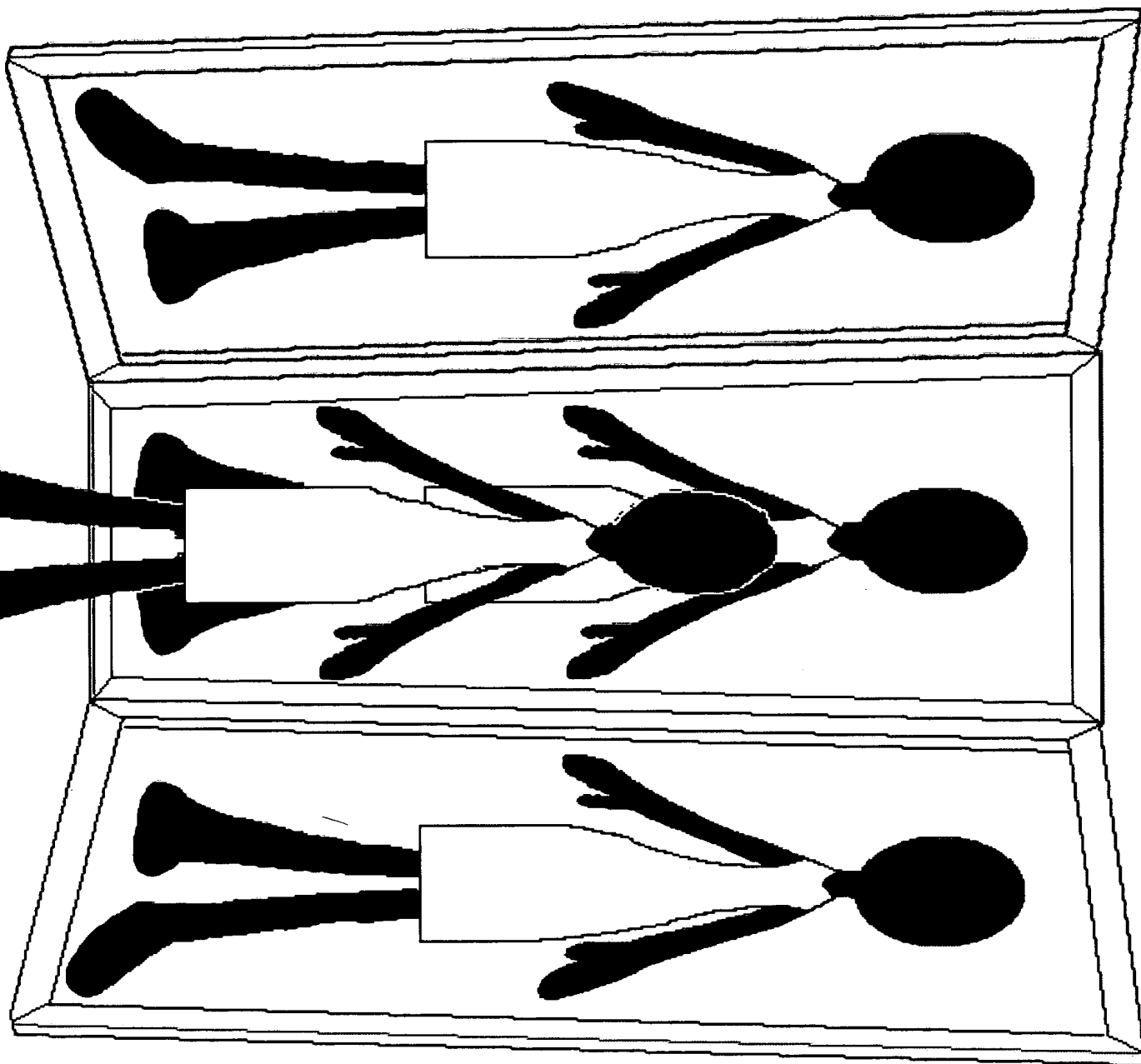


FIG 7E





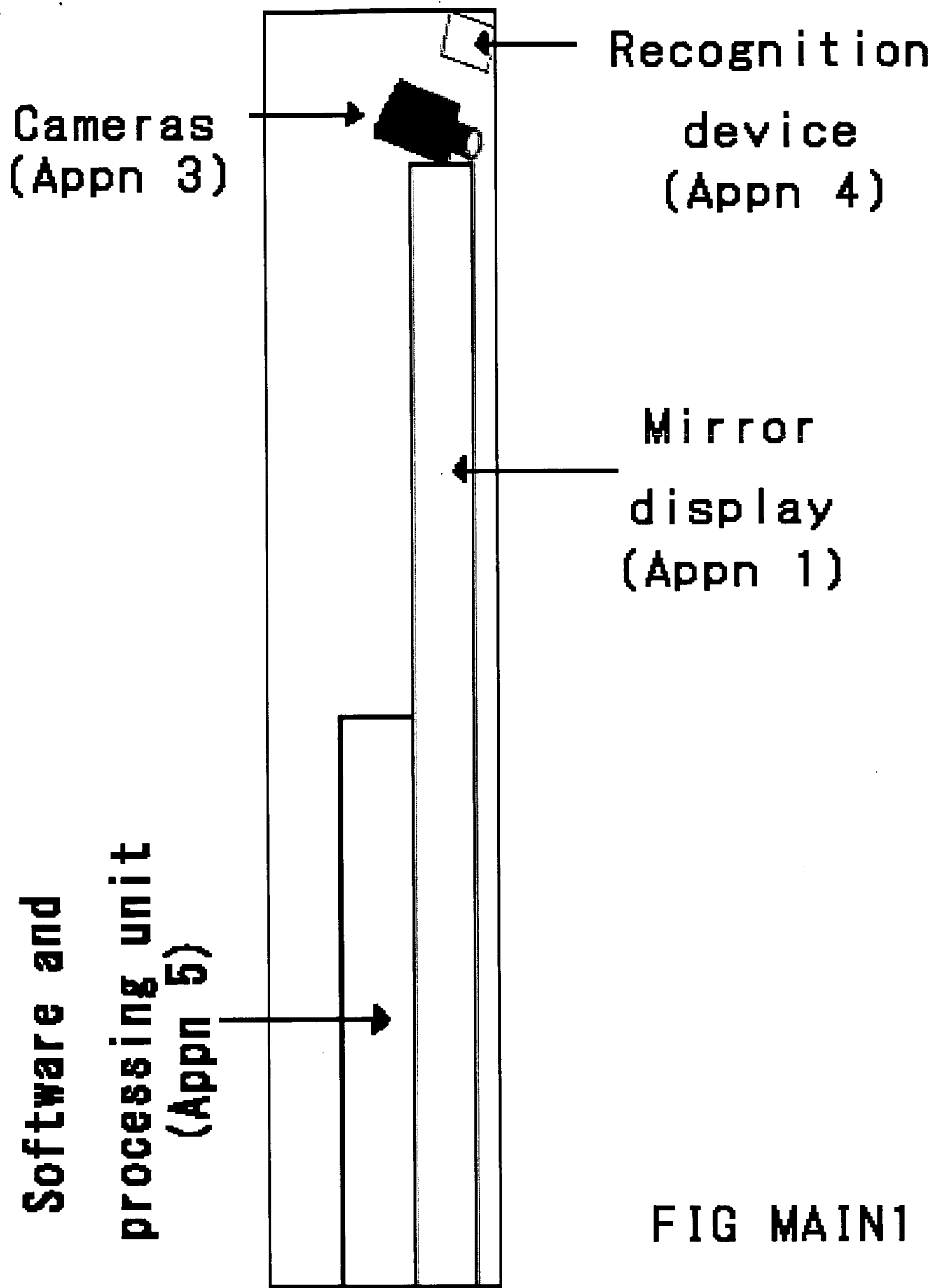
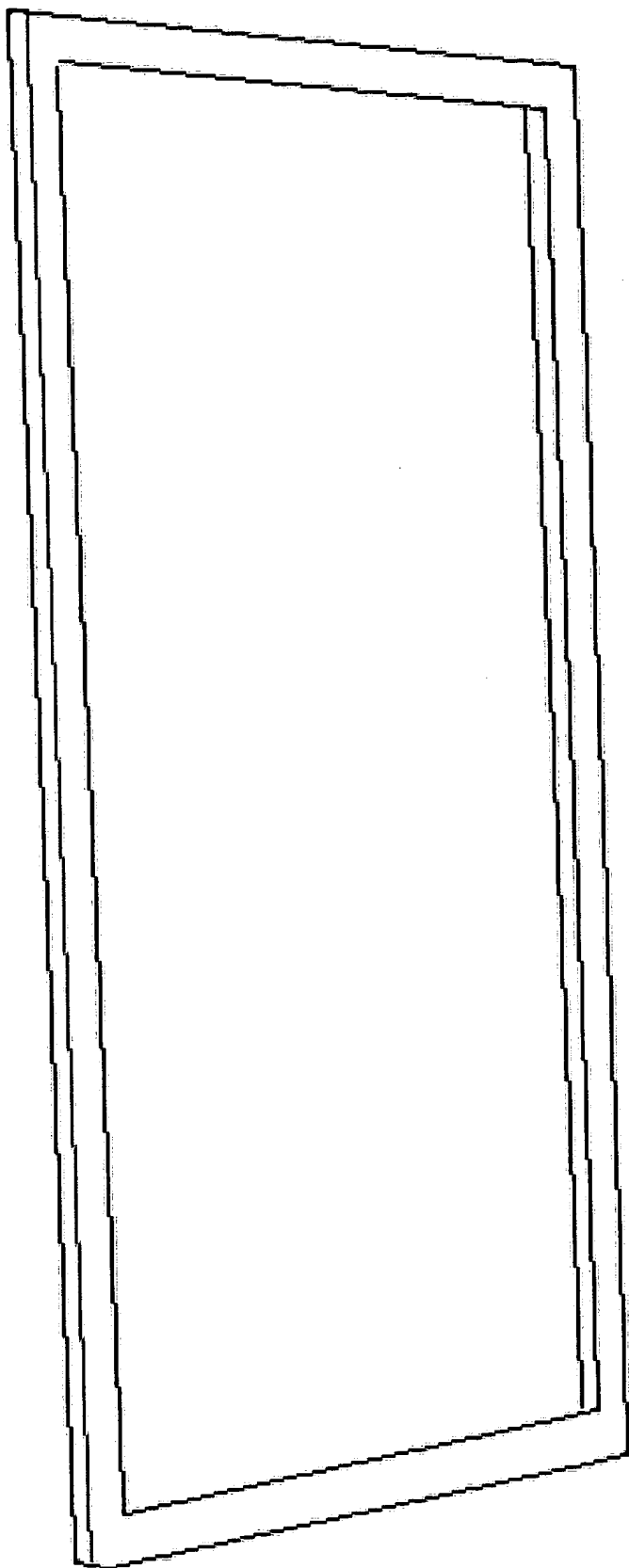
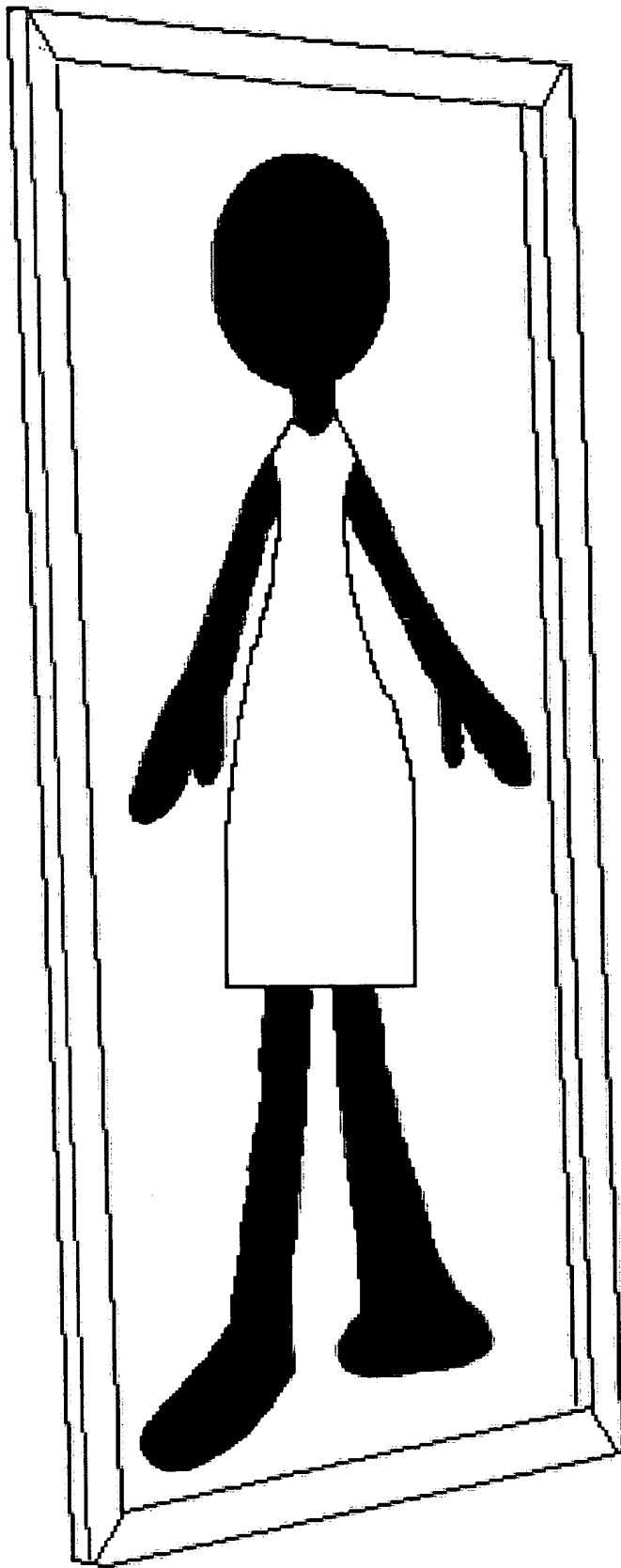
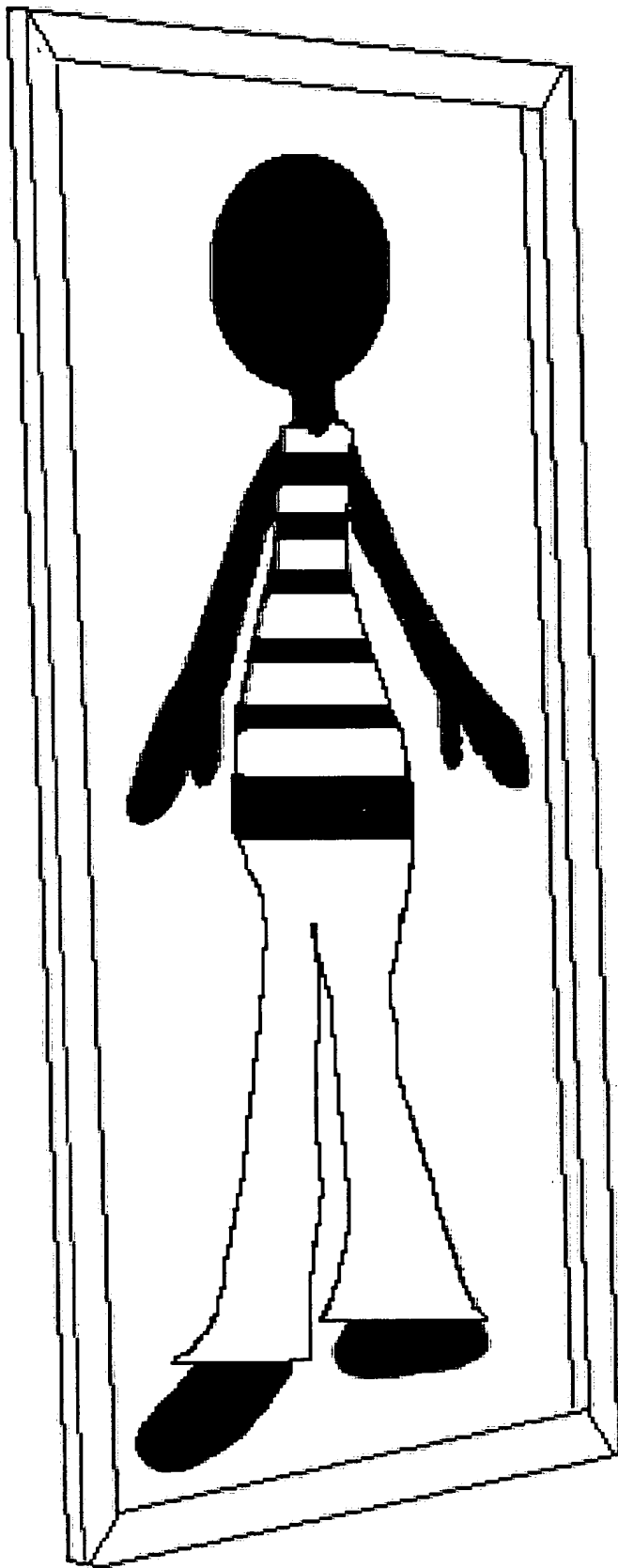
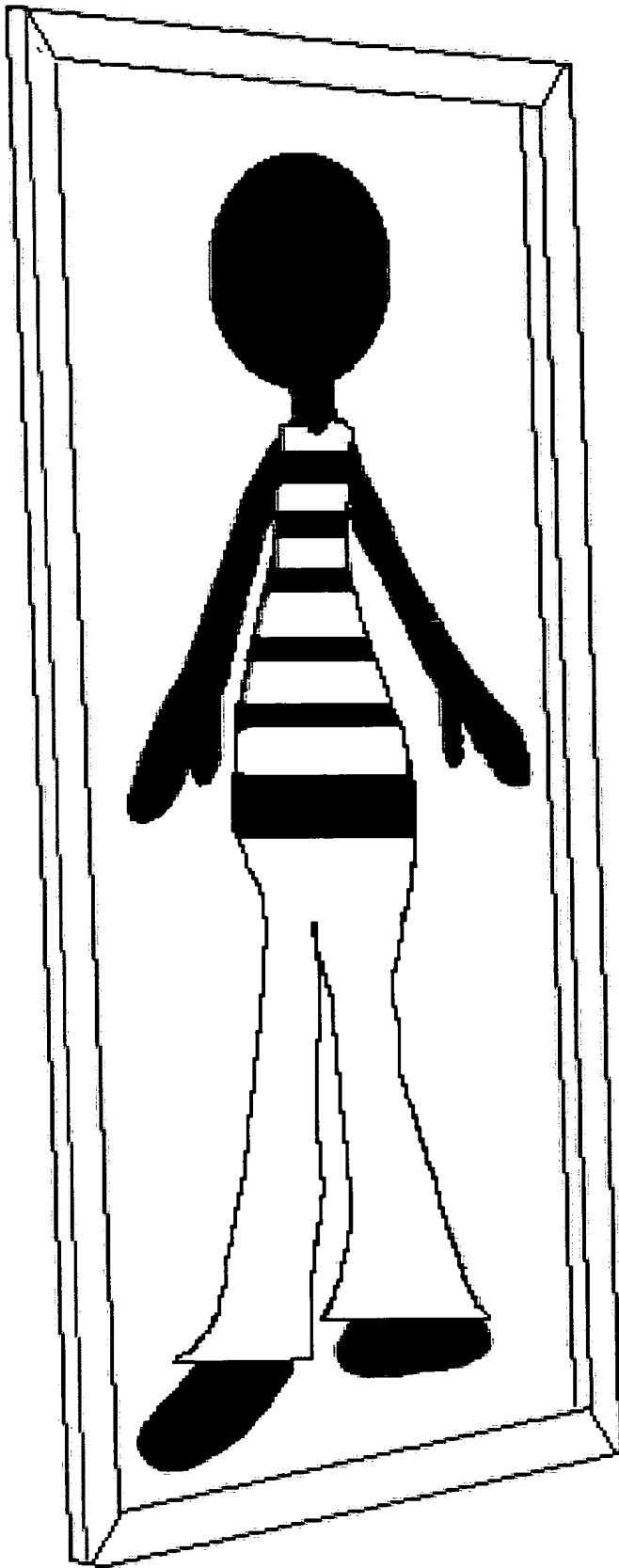


FIG MAIN1

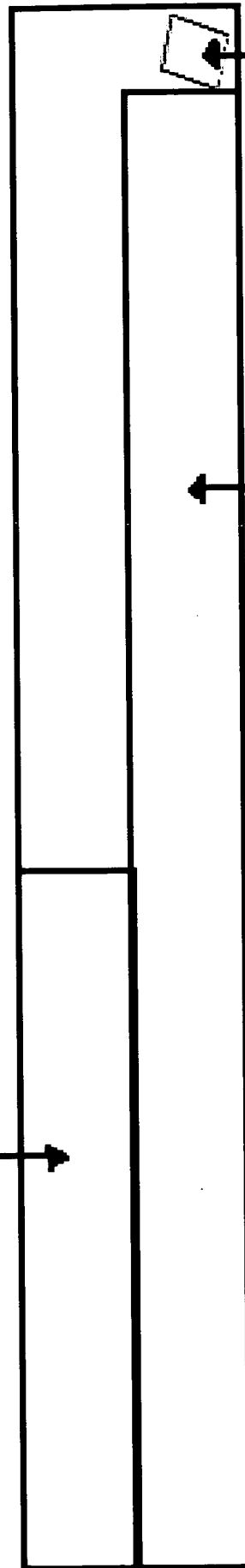








**Software and
Prosesing unit**



Recognition



**Mirror
display
(Appendix 10)**

FIG REPLAY1

PATENT APPLICATION SERIAL NO. _____

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FEE RECORD SHEET

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