United States Patent [19]

Marty

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[54] **REVOLVABLE DEVICE FOR AIDING THE MOVEMENT OF A PARTIALLY DISABLED PERSON**

[76] Inventor: **Fred C. Marty,** 2003 Hughitt Avenue, Superior, Wis. 54880

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[52] **U.S. Cl.**.....**248/425,** 108/139

[51] **Int. Cl.**.....**F16m 13/00**

[58] **Field of Search**.....108/90, 92, 94–97, 108/139; 5/81, 91; 297/DIG. 10; 248/425

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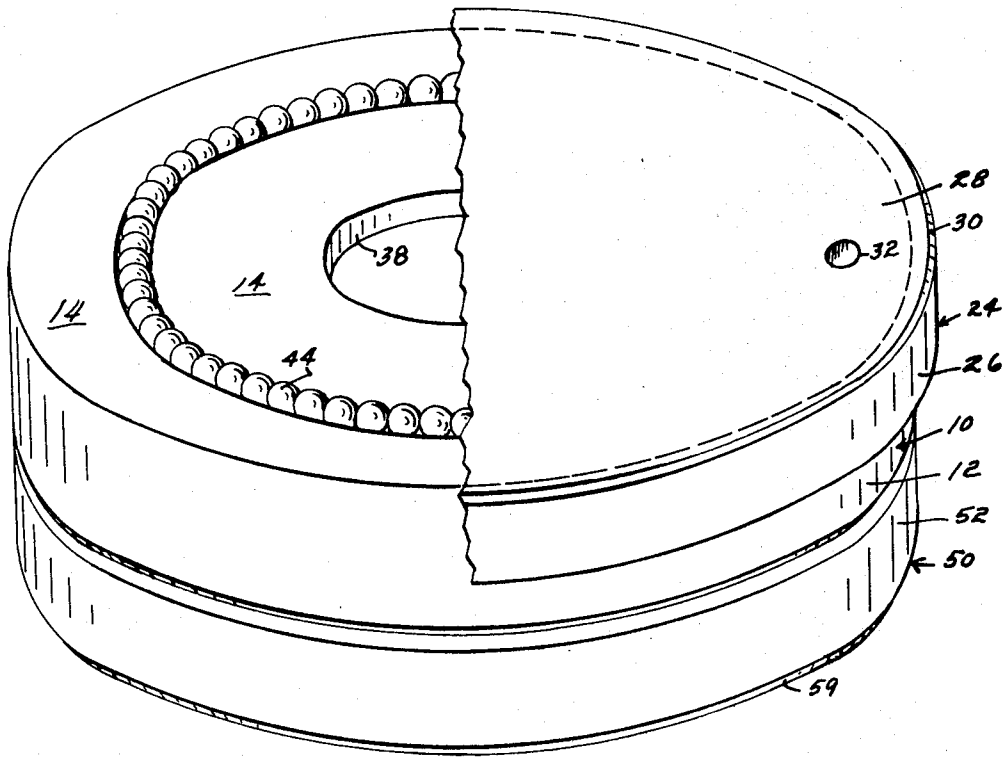
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Primary Examiner—Francis K. Zugel
Assistant Examiner—Glenn O. Finch
Attorney—Wicks and Nemer

[57] **ABSTRACT**

A revolvable device for aiding the movement of a partially disabled person including a main support, a revolvable member, means rotatably mounting the revolvable member on the main support, and means for varying the resistance to rotation of said revolvable member on said main support.

3 Claims, 3 Drawing Figures



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SHEET 1 OF 2

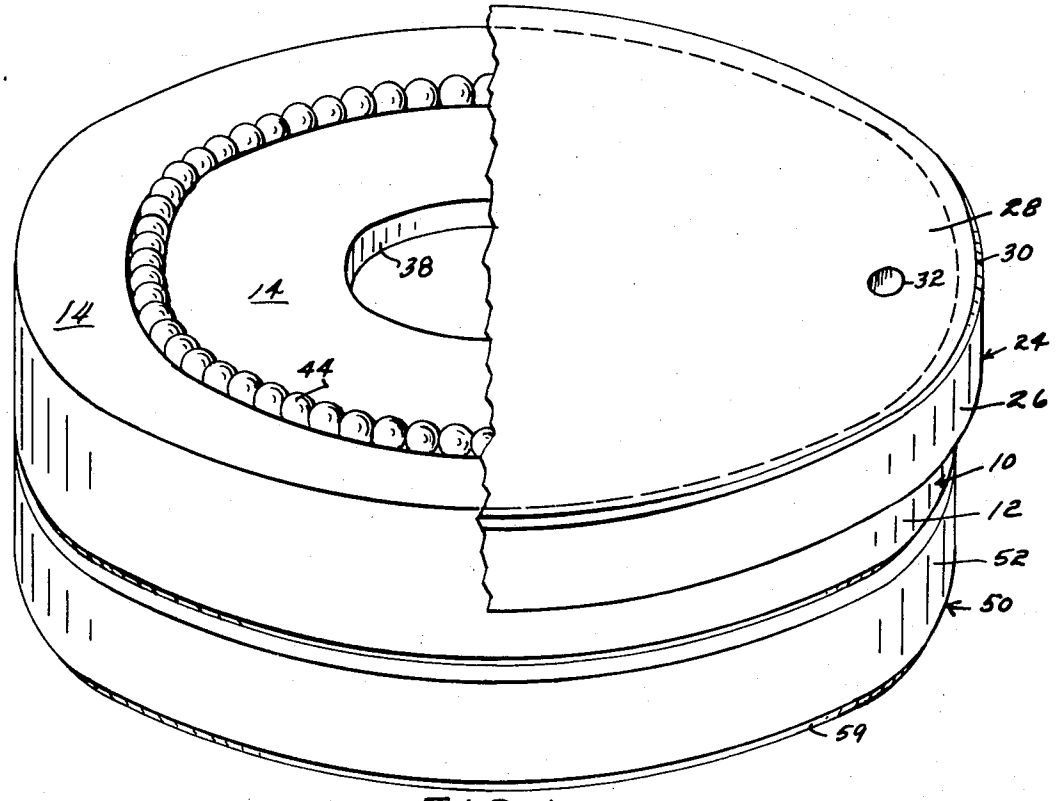


FIG. 1.

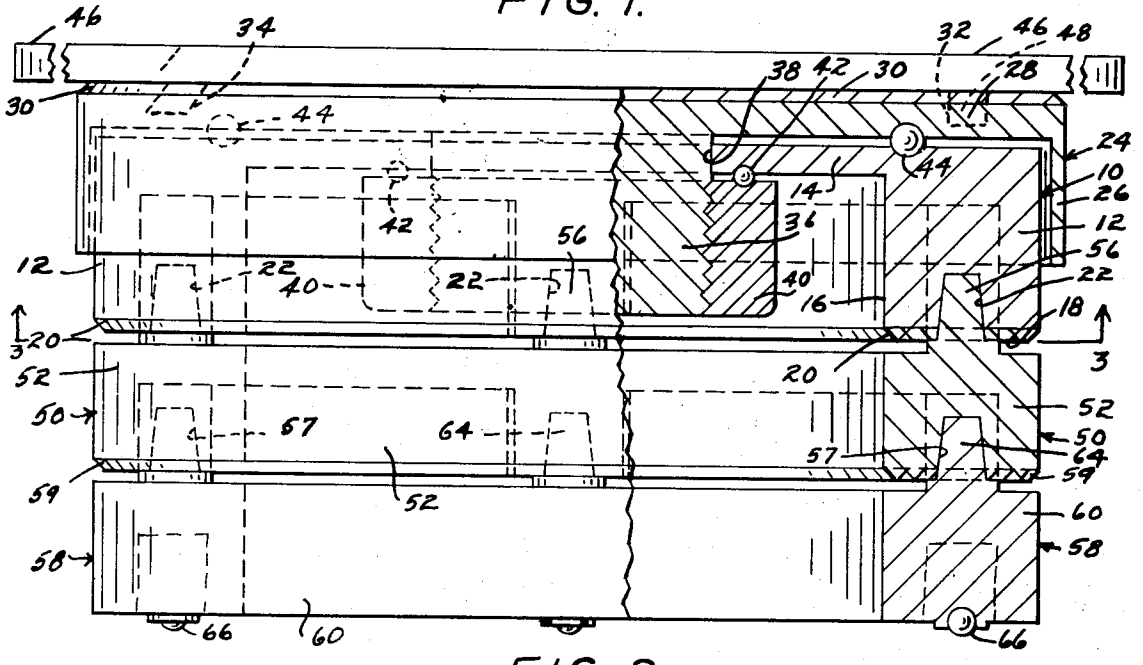


FIG. 2.

INVENTOR.
FRED C. MARTY

BY Wicks & Nemer

ATTORNEYS

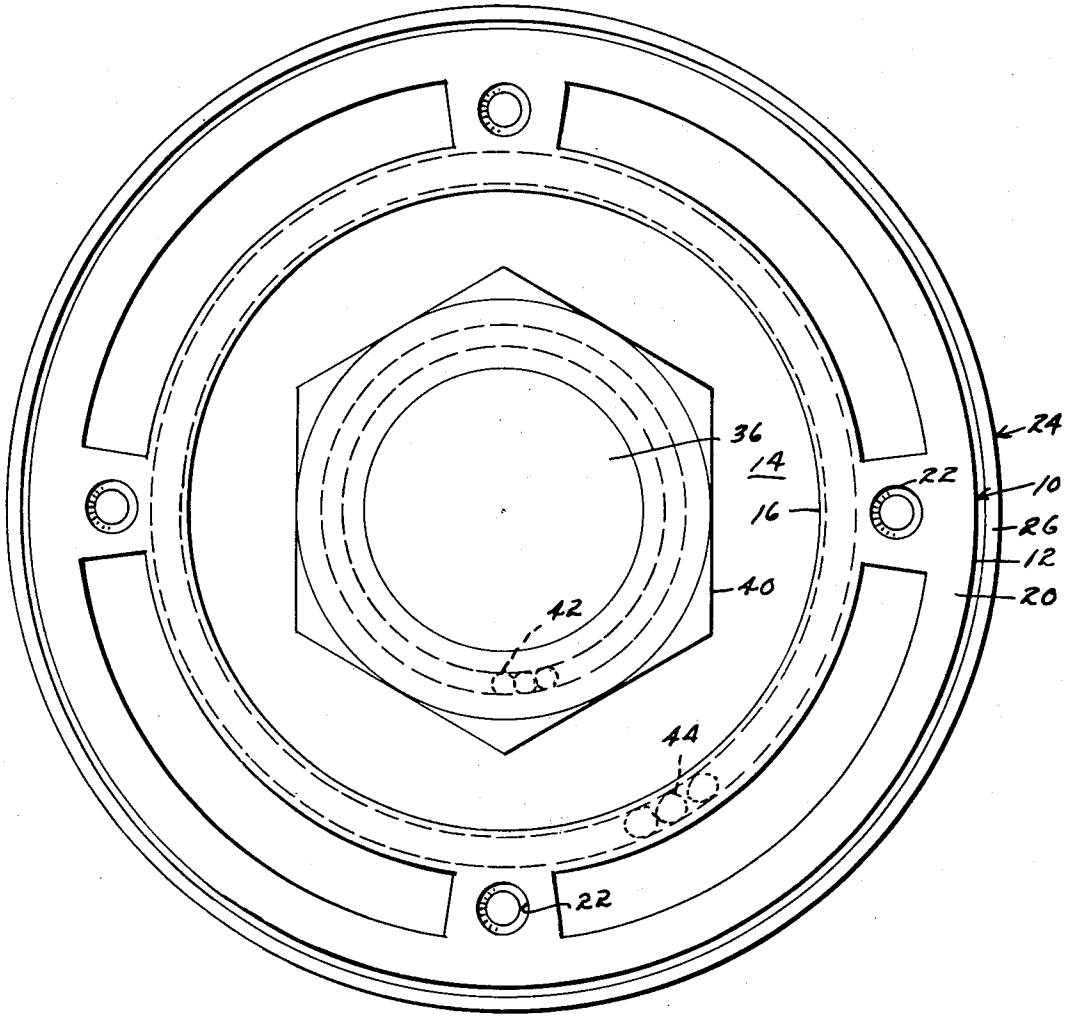


FIG. 3.

INVENTOR.
FRED C. MARTY
BY Hicks & Nemer
ATTORNEYS

REVOLVABLE DEVICE FOR AIDING THE MOVEMENT OF A PARTIALLY DISABLED PERSON

SUMMARY OF THE INVENTION

The invention relates to an improvement in a device for aiding the movement of a partially disabled person, particularly a person who has difficulty in moving about due to impairment of legs, hips or feet, and more particularly to a device having a main support on which a revolvable member is mounted. As an example of use of the device the same may be placed adjacent a wheelchair, bed or the like on which a partially disabled person is sitting. The person is raised to a position with his feet upon the device and then rotated by means of the device to a position whereby the person may be transferred to and placed on another device. The device is particularly desirable for a person who can stand up but cannot rotate his feet and body. The main support of the device includes lift members for varying the height of the device with a lift member having roller means whereby the device may be moved across the floor with the patient thereon. The main support also includes a top member having an area which is greater than the main support and which accommodates a chair, stool or the like on which a patient sits and may be rotated, moved and transported when the lift with the roller means is used.

In the drawings forming part of this application:

FIG. 1 is a perspective view of a revolvable device for partially disabled patient embodying the invention with one lift member attached.

FIG. 2 is a side elevational view of the device, portions thereof being in section other portions broken away.

FIG. 3 is a bottom plan view of the device on the line 3—3 of FIG. 2.

Referring to the drawings in detail, the device A includes the circular main support **10** which includes the annular wall **12** and the flat top wall **14** connected thereto which forms the circular cavity **16**. The under surface **18** of the wall **12** is made with the non-skid surface as at **20**. The under surface **18** of the wall **12** has extended thereinto the spaced sockets **22**.

The numeral **24** designates a circular revolvable member which includes the circular wall **26** the inside diameter of which is slightly greater than the outside diameter of the annular wall **12** which it overlaps. Connected to the top of and forming part of the wall **26** is the circular flat platform **28**. The top surface of the platform **28** is formed with the non-skid surface as at **30**. The non-skid surface of the member **24** may be molded integral with the platform **28**. The platform **28** is formed with the spaced sockets **32** and the oblique hole **34** used for hanging the device when not in use.

Extending downwardly and axially from the underside of the platform **28** is the threaded extension **36**. The flat top wall **14** of the main support **10** is formed with a central opening **38** through which the extension **36** snugly extends.

The numeral **40** designates a nut formed with threads complementary with the threads of the extension **36**. A bearing **42** is mounted between the top surface of the nut **40** and the under surface of the top wall **14** of the main support **10**. A bearing **44** is mounted between the top surface of the top wall **14** of the main support **10** and the underside of the platform **28**. The revolvable member **24** is operatively mounted on the main support **10** by tightening up the nut **40** upon the extension **36**. With the threaded extension **36** and the nut the frictional rotational engagement of the member **24** upon the support **10** through the bearings **42** and **44** may be varied by the degree to which the nut is tightened on the extension. The nut may be tightened to the point where any rotational movement may be prohibited if such be desired.

Further provided is the auxiliary circular flat top member **46** which has secured to the underside thereof the spaced pegs **48** which are received in the sockets **32** to thereby position the auxiliary top **46** on the platform **28**. The diameter of the auxiliary top is greater than the platform **28** and can be such that a chair may be positioned upon the auxiliary top for use by a patient. The auxiliary top **46** rotates with and is part of the revolvable member **24** when used therewith.

The numeral **50** designates a lift which includes the ring formation **52** which has the top surface thereof formed with the upstanding pegs **56**. The pegs **56** are received in the sockets **22** whereby the height of the device may be selectively increased by use of the lift **50**. The ring **50** is also formed with the sockets **57** and the non-skid under surface **59**. With the lift **50** in position as shown, the same is part of the support **10**. Similarly with the support **58** in position with or without the lift **50** the same is part of the support **10**.

Further provided is the support **58** which provides mobility for the device with or without the lift **50**. The support **58** includes the annular ring **60**. The ring **60** has formed on the top thereof the pegs **64** which are positioned in the sockets **57** of the lift **50** or selectively in the sockets **22** of the wall **12** of the support **10**.

The ring **60** has formed on the underside thereof the roller members **66** whereby the device may be easily moved over a floor. Further, the ring **60** may be positioned on the support **10** when the additional height is not needed. Alternatively, the wall **12** of the support **10** may be placed directly upon the floor.

I claim:

1. A revolvable device for aiding the movement of a partially disabled person comprising:

a. a main support,
b. a revolvable member,
c. means rotatably mounting said revolvable member on said main support,
d. means for varying the resistance to rotation of said revolvable member on said main support,
e. said mean support including an annular wall having
f. a flat top wall,
g. said means rotatably mounting said revolvable member including an extension formed on said revolvable member and extending through
h. an opening formed in said top wall and
i. adjustable means carried by said extension for drawing up upon said top wall,
j. said rotatable mounting means including a first bearing mounted between said main support and said revolvable member, and
k. a second bearing mounted between said adjustable means and said top wall.

2. The device of claim **1** in which said main support includes

a. a lift member and

b. means for releasably mounting said lift thereon.

3. The device of claim 2 in which said main support includes

a. a support having

b. roller means mounted thereon, and

c. means for releasably mounting said support on said main support.

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