

## Re: Provisional Application Draft Attached (Our File: G185.0001US0)

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From mattguertin <MattGuertin@protonmail.com>  
To Amanda Prose<aprose@wck.com>  
CC Megan Neumann<mneumann@wck.com>, Alysha Rameshk<arameshk@wck.com>  
Date Wednesday, March 17th, 2021 at 2:32 PM

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Amanda,

Looks good!

Here is the list of notes, corrections, and questions I came up with as I read through it -

1

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[0006] "for directionally unlimited movement in the X-Y plane."

Do you think mentioning that the 'X-Y plane' corresponds to 'a ground plane' or 'the ground plane of the virtual environment', etc adds any extra value?

2 -----

[0008] "The turntable comprises a removable cover which provides a floor space to a user and one or more handles for removing the turntable from the treadmill."

Should this instead read "removing the turntable from the FLOOR BASE." ?

3 -----

[0009] "The floor base operably supports the turntable thereon and wherein the base comprises a plurality of roller wheels for centering and supporting the turntable thereon.

The

turntable operably supports the travel deck and wherein the turntable supports a motor for controlling operation of the belt. The floor base houses a motor, drive belt and roller and drive

wheel assembly for operation of the turntable."

Is there a specific reason you do not mention the slip ring device as part of the assembly in this section or is that not important as my invention specifically describes and entails an 'infinitely rotating turntable' which currently wouldn't be possible without the use of a slip ring?

4 -----

[0013] "Another aspect of the present disclosure relates to a system for creating the illusion of movement of a user, for use in virtually rendered settings."

Does the term "virtually rendered settings" also cover movement in a scene that was filmed in the real world which a user is being filmed in virtually while using my invention?

5 -----

[0016]

"and wherein the camber is moveable around the turntable"

camera - not 'camber'

6 -----

[0047] -

YESSSS ! Excellent

7 -----

[0049] Although the present disclosure has been described.....

[0051] Although the present disclosure has been described....

The same thing is listed twice

8 -----

CLAIM 7. "The motorized treadmill of claim 1, wherein the turntable comprises a removable cover which provides a floor space to a user and one or more handles for removing the turntable from the treadmill."

Same as I listed about [0008] - Should this instead read "removing the turntable from the FLOOR BASE." ?

9 -----

CLAIM 10. "The motorized treadmill of claim 8, wherein the floor base houses a motor, drive belt and roller and drive wheel assembly for operation of the turntable."

Does mentioning that it houses a 'drive belt' limit this claim in any way?

I only ask this as I have come across servo motors that are directly attached to a roller wheel as a single, compact assembly. There are also other methods of achieving the same result without a drive belt (gears, roller wheel attached directly to motor shaft, etc)

Another possible configuration of this design (which is one I thought about early on and which could technically achieve the exact same thing) is that the rollers which drive the turntable rotation could be contained in the turntable itself. Instead of the turntable sitting on top of rollers in the floor base the turntable would contain the rollers needed to drive and support itself and the floor base would contain the track on which they rest. Basically an upside down version of my current design. This could end up making sense to implement at some point with further research.

10 -----

CLAIM 11. "The motorized treadmill of claim 1, wherein the treadmill comprises one or more green surfaces for use of the treadmill in a digital environment allowing for digital isolation of a user on the treadmill."

This doesn't mean someone could color it blue instead does it?  
This doesn't mean my invention must be green does it?

11 -----

CLAIM 17. "wherein the camber is moveable"

camera - not 'camber'

12 -----

ABSTRACT - "The speed of the treadmill is precisely controlled and movement of the camera is precisely synched with the real-world speed of movement of the user and the distance the user travels on the belt to create the illusion on movement of the person being filmed."

user - not 'ser'

13 -----

One more random thought I just had -

Another option for acquiring the data needed to control my invention would be to use an AI system and/or existing software which is able to analyze a video and determine very accurately the path/rotation/3D positional data of the camera which recorded the video. This has been available functionality in Adobe After Effects for quite a while as an example.

Currently available software and technology in the field of photogrammetry is also rapidly expanding. This is another available option which can calculate the position of a video camera relative to the physical and real-world environment in an analyzed video clip

(I'm guessing other software like Adobe that I mentioned are using a process similar to that which photogrammetry uses to calculate position of camera)

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