

## Re: TRACK ONE Non-Provisional Patent Application: Motorized rotatable treadmill and system for creating the illusion of movement (Our File: G185.0001US1)

---

From mattguertin <MattGuertin@protonmail.com>

To Megan Neumann<mneumann@wck.com>

CC Amanda Prose<aprose@wck.com>

Date Monday, September 26th, 2022 at 10:55 PM

---

Sweet!

Thanks.

I switched over to finishing up the final programming of the motion control stuff as well as documentation and folders for my two main programmers (touchdesigner and UE5) which I should have all wrapped up by weeks end at which point I'm switching back over to patent mode and will finish up the stuff I want to get back to you so we can assess, discuss, and plan the reply.

I've got my prototype super dialed in. I ended up completely getting rid of the 4 planetary gears so that the 4 timing belts that power the treadmill belt are direct to the servo motor shafts. This eliminated a bunch of weight and noise and also means that it's technically capable of reaching close to 20mph - but I'm going to be limiting it to 7.5mph...for now.

I've also realized a completely unplanned for yet very valuable mechanical feature that was made possible by simply shaving off 4 little pieces of aluminum on the travel deck cross supports. I've included a few images of this with email but will address in more detail when I get the rest of my research and analysis back to you. Wondering if it can possibly be included in claims and if so would it make sense to do so.

Basically instead of having to remove the travel deck entirely to service, access components underneath, change treadmill belt, etc it's possible to open like a hinged door instead and it requires no other parts, pieces, etc.

I should have stuff ready to send over by the end of next week I'd imagine.

Cheers!

~Matt

Sent from ProtonMail mobile

---

13.02 MB [11 files attached](#)

[20220924\\_164139.jpg](#) 1.80 MB

[20220924\\_164148.jpg](#) 2.08 MB

[20220924\\_164220.jpg](#) 1.79 MB

[20220925\\_112046.jpg](#) 2.20 MB

[20220925\\_112623.jpg](#) 1.91 MB

[20220925\\_112732.jpg](#) 1.94 MB

[signal-2022-09-24-15-49-13-293-1.jpg](#) 304.63 KB

[signal-2022-09-24-15-49-13-293-2.jpg](#) 316.00 KB

[signal-2022-09-24-15-49-13-293-3.jpg](#) 288.35 KB

[signal-2022-09-24-15-49-13-293.jpg](#) 297.27 KB

[signal-2022-09-24-15-49-13-293.png](#) 117.18 KB