track-rails on both sides of the traveling frame.

It is obvious that instead of the sprocket drive-chain I may substitute a drive-belt with suitable mounting-wheels.

I claim—

1. In an ellipsoidal traction-wheel and in combination with the connected frame-bars each having a depending side rail terminating in upward curves connecting the ends of the bars, sprocket-wheels upon and between the ends of said bars and projecting beyond them, an endless chain upon the sprocket-wheels, tread-frames secured to and straddling the chain and carrying a track-wheel on each side thereof for travel on each side of the sprocket-wheels and under each track-rail the connection of the tread-frames with the chain being between their tread ends and the track-wheels, and means for rotating the sprocket-wheels.

2. In an ellipsoidal traction-wheel and in combination with the connected frame-bars each having a depending track-rail on its outer side terminating in upward curves at their connection with the ends of the frame-bars, each rail having a flange extended as a bar and made continuous above the frame-bars, sprocket-wheels upon and between the ends of the said bars and projecting beyond them, an endless chain upon the sprocket-wheels, tread-frames secured to and straddling the chain and carrying a track-wheel on each side of the sprocket-wheels, in contact with each side rail and on the outer side of the continuous flange-bars, and means for rotating one of the sprocket-wheels.

3. In an ellipsoidal traction-wheel and in combination with the frame each having a depending rail on its outer side terminating in upward-curved ends connected to the ends of the frame-bars, sprocket-wheels mounted upon and between the ends of the frame-bars and projecting beyond them, an endless chain upon the sprocket-wheels, tread-frames secured to and straddling the chain and carrying a track-wheel on each side of the chain adapted to engage the track-rails, and flexible mud-guards secured to the outer sides of the chain between the tread-frames and means for rotating one of the sprocket-wheels.

4. In an ellipsoidal traction-wheel and in combination with the frame-bars each having a depending rail on its outer side terminating in upward-curved ends connected at the ends of the frame-bars, sprocket-wheels mounted upon and between the ends of the frame-bars and projecting beyond them, an endless chain upon the sprocket-wheels, and tread-frames secured to and straddling the chain, each straddling part having a track-wheel adapted to engage the sides of the track-rails and contracted at the chain connection for travel on each side of the sprocket-wheels and upon the rails, and means for rotating one of the sprocket-wheels.

5. In an ellipsoidal traction-wheel and in combination with the connected frame-bars each having a depending track-rail terminating in upward curves at their connection with the ends of said bars and a vertical flange on its upper side, sprocket-wheels upon and between the ends of said bars and projecting beyond them, an endless chain upon the sprocket-wheels, tread-frames secured to and straddling the chain and carrying on each side thereof a track-wheel for travel upon the under side of each track-rail, and also having a roll arranged to travel against the vertical flange on the upper side of the rail, and means for rotating one of the sprocket-wheels.

6. In an ellipsoidal traction-wheel and in combination with the frame-bars each having a depending side rail terminating in upward curves connecting the ends of the bars, sprocket-wheels upon and between the ends of the bars and projecting beyond them, an endless chain upon the sprocket-wheels, treadle-frames secured to and straddling the chain and carrying a track-wheel on each side thereof for travel on each side of the sprocket-wheels and upon the under side of each track-rail, a shaft supported in the frame-bars between the sprocket-wheels, a pair of sprocket-gear upon said shaft, a chain connecting one of said sprocket-gear with a small sprocket-gear on the front driving sprocket-wheel shaft, a sprocket-gear treadle-power and a chain connecting it with the other sprocket-gear on the intermediate shaft whereby to rotate the front driving sprocket-wheel.

7. In an ellipsoidal traction-wheel and in combination with the frame-bars each having a depending side rail terminating in upward curves connecting the ends of the bars, sprocket-wheels upon and between the ends of said bars and projecting beyond them, an endless chain upon the sprocket-wheels, tread-frames secured to and straddling the chain and carrying a track-wheel one each side thereof, having a cushion at the tread end of each and connected to the chain below the track-wheels, and means for rotating the driving sprocket device.

8. In an ellipsoidal traction-wheel and in combination with a frame having depending rails on each side, propelling-wheels mounted upon and between the ends of the frame, and an endless chain or belt upon the wheels, of tread-frames having arms straddling the chain, each arm having a group of three rolls for travel upon the side rails, the chain secured to the tread-frame between its arms and between the rolls and the treading ends of said frames, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY T. STITH.

Witnesses:
A. E. H. JOHNSON,
A. ROLAND JOHNSON.