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(12) United States Patent

Pondorfer et al.

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(54) AMUSEMENT RIDE

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See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

817,402 A	*	4/1906	Strickler 472/33
1,473,980 A	*	11/1923	Traver
1,625,877 A	*	4/1927	Wood
1,712,340 A	*	5/1929	Fankhauser et al 472/2
2,142,169 A	*	1/1939	Bisch 472/33
3,840,225 A	*	10/1974	Fouche
4,576,373 A		3/1986	Spieldiener et al.
5,046,719 A	*	9/1991	Comstock et al 472/49
5,658,201 A		8/1997	Kleimeyer et al.

(Continued)

FOREIGN PATENT DOCUMENTS

DE 910630 5/1954

(Continued)

OTHER PUBLICATIONS

International Search Report of PCT/AU2004/000099, mailed May 7, 2004.

(Continued)

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(57) ABSTRACT

An amusement ride (10) involving riders (17) being conveyed through the air. The amusement ride (10) comprises a tower (11) having a column (23), typically of a height of at least 30 meters. A hub structure (33) is supported on the column (23) for rotation with respect thereto and for displacement therealong. A first drive means (51) is provided for rotating the hub structure (33) with respect to the column (23). A second drive means (61) is provided for displacing the hub structure (33) along the column (23). Rider carriers (81) are suspended from the hub structure (33) to undergo motion in response to movement of the hub structure (33) with respect to the column (23), involving the riders (17) being conveyed along a path around the column (23), with the elevation of the riders changing during the ride through displacement of the hub structure (33) along the column (23). The amusement ride (10) is of a design which is conducive to construction on a large scale.

46 Claims, 28 Drawing Sheets

