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**Hiramaru et al.**

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(54) **WHEEL FOR STRADDLE VEHICLE**

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See application file for complete search history.

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(56) **References Cited**

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U.S. PATENT DOCUMENTS

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2,242,986 A \* 5/1941 Zipper ..... B60B 1/00  
301/65  
6,773,077 B2 \* 8/2004 Buell ..... B60B 1/06  
301/104  
2007/0090685 A1 \* 4/2007 Sekiguchi ..... B60B 1/00  
301/64.101

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FOREIGN PATENT DOCUMENTS

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\* cited by examiner

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(57) **ABSTRACT**

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A wheel for straddle vehicle includes a hub, a rim, a plurality of first spokes, a plurality of second spokes, spoke side hollow portions, and first opening portions. Each of the plurality of second spokes is provided between adjacent two first spokes among the plurality of first spokes to be a pair with a closest first spoke between the adjacent two first spokes. The pair has opposite surfaces facing to each other. The spoke side hollow portions are provided inside the plurality of first spokes and second spokes, respectively. The first opening portions are provided on the opposite surfaces, respectively. Each of the first opening portions communicates with each of the spoke side hollow portions.

(52) **U.S. Cl.**  
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**14 Claims, 10 Drawing Sheets**

