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Owen et al.

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1/1995 Hu A63B 69/16

6/2001 Iida D15/5

 $6/2005 \quad Hamilton \quad \quad F16H \ 55/30$

5/2006 Francis D21/694

9/2006 Qiu A63B 21/0051

5/2009 Clarke D12/123

3/2010 Bourgeois D12/127

3/2011 Young F16H 55/30

Morrow D12/123

Morrow D12/123

474/152 /663

/663

2/2003 Kohno

(54) SPROCKET RETENTION SYSTEM FOR EXERCISE DEVICE (71) Applicant: Zwift, Inc., Long Beach, CA (US) (72) Inventors: Thomas Owen, London (GB); Tung-Lin Leng, London (GB); Jonathan Heath, London (GB) Assignee: Zwift, Inc., Long Beach, CA (US) Term: 15 Years Appl. No.: 29/877,904 (22) Filed: Jun. 13, 2023 (51) LOC (15 (52) U.S. Cl.

LOC (15) Cl 21-02	Primary Examiner — Ryan Harvey
U.S. Cl.	(74) Attorney, Agent, or Firm — SoCal IP Law Grou
USPC D21/697	LLP; Jonathan Pearce

Field of Classification Search

USPC D21/697, 694, 663, 664, 662; D15/148, D15/5; D12/127, 123 CPC . A63B 69/16; A63B 21/225; A63B 2069/165; A63B 21/00069; F16H 2055/306 See application file for complete search history.

References Cited (56)

U.S. PATENT DOCUMENTS

2,596,501	A	*	5/1952	Montgomery F16H 55/30
				464/83
D210,564	\mathbf{S}	*	3/1968	Brilando et al D12/123
D242,539	\mathbf{S}	*	11/1976	Manofsky et al D12/127
D266,558	S	*	10/1982	Breen D12/123
D273,882	\mathbf{S}	*	5/1984	Bryne 482/61
D306,193	\mathbf{S}	*	2/1990	Blackburn D21/664
D311,884	S	*	11/1990	Kagayama D12/115
5,055,093	Α	*	10/1991	Denker F16H 1/32
				475/167
D325,184	\mathbf{S}	*	4/1992	Piller D12/127

D663,	794	S	*	7/2012	Bingham	 D21
D666,	685	S	*	9/2012	Bingham	 D21
(Continued)						
Primary Examiner — Ryan Harvey						
(74) Attorney, Agent, or Firm — SoCal IP Law Group						
LLP: Jonathan Pearce						

7/2009

11/2009

(57)**CLAIM**

5,382,208 A *

D470,861 S *

6,910,980 B2*

D521,087 S *

7,101,320 B2*

D592,107 S *

D603,761 S *

D611,391 S *

7,914,408 B2*

D595,619 S

D443,880 S

The ornamental design for a sprocket retention system for exercise device as shown and described.

DESCRIPTION

FIG. 1 is a front, upper, left perspective view of the sprocket retention system shown installed on a bicycle;

FIG. 2 is a front, upper, left perspective view thereof;

FIG. 3 is a back, upper, left perspective view thereof;

FIG. 4 is a front view thereof;

FIG. 5 is a back view thereof;

FIG. 6 is a left view thereof;

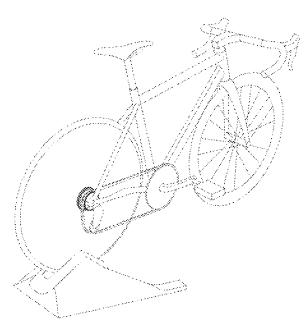
FIG. 7 is a right view thereof;

FIG. 8 is a top view thereof; and,

FIG. 9 is a bottom view thereof.

The broken lines show portions of the sprocket retention system for exercise device which form no part of the claim.

1 Claim, 6 Drawing Sheets



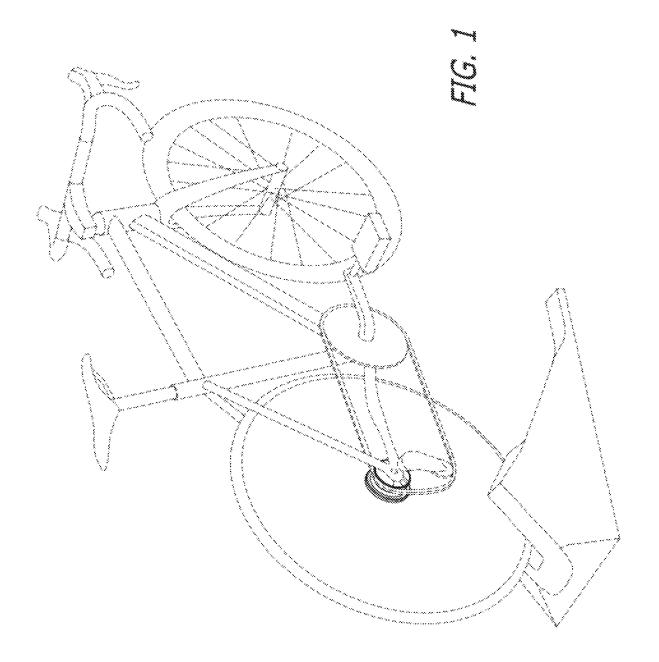
US D1,089,471 S Page 2

(56) **References Cited**

U.S. PATENT DOCUMENTS

D682,370	\mathbf{S}	*	5/2013	Bingham D21/663
D700,668	\mathbf{S}	*	3/2014	Flick D12/209
D765,551	S	*	9/2016	Baker, Jr D12/123
D787,380	\mathbf{S}	*	5/2017	Karol D15/138
D792,529	\mathbf{S}	*	7/2017	Liu D21/664
D800,194	S	*	10/2017	Sewell D15/148
D811,948	\mathbf{S}	*	3/2018	Turner D15/138
D817,371	\mathbf{S}	*	5/2018	Karol D15/148
D817,372	S	*	5/2018	Karol D15/148
D818,057	\mathbf{S}	*	5/2018	Servadei D21/663
D824,972	\mathbf{S}	*	8/2018	Karol D15/148
D825,012	\mathbf{S}	*	8/2018	Bass D21/664
D853,891	\mathbf{S}	*	7/2019	Scandlon D12/123
D860,279	S	*	9/2019	Karol D15/148
D877,220	\mathbf{S}	*	3/2020	Karol D15/148
D886,923		*	6/2020	Hsiung D21/697
D941,712	J	*	1/2022	Scandlon D12/123
D956,149	S	*	6/2022	Xia D21/664
D992,465	\mathbf{S}	*	7/2023	Hawkins D21/694
D1,028,125	\mathbf{S}	*	5/2024	Byler D21/664
2004/0204274	A1	*	10/2004	Young F16H 55/30
				474/100
2011/0287902	A1	*	11/2011	Bingham, Jr A63B 69/16
				482/61
2014/0171272	A1	*	6/2014	Hawkins, III A63B 24/0087
				482/61
2017/0248046	A1	*	8/2017	Hopkins F01L 1/3442
2018/0180156	A1	*	6/2018	Koller F16H 55/30
2020/0096087	A1	*	3/2020	Konno F16H 55/14
2021/0277986	A1	*	9/2021	Hobbs F16H 55/30
2023/0213087	A1	*	7/2023	Warren B62M 9/04
				474/122
2024/0011549	Α1	*	1/2024	Shimizu F16H 55/14
	A1		8/2024	Csizmadia F16C 33/76

^{*} cited by examiner



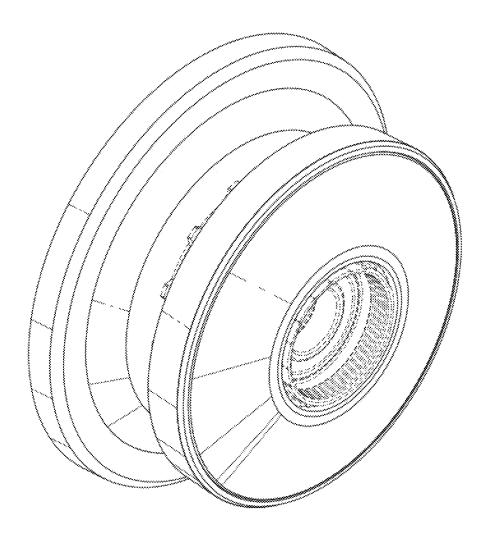


FIG. 2

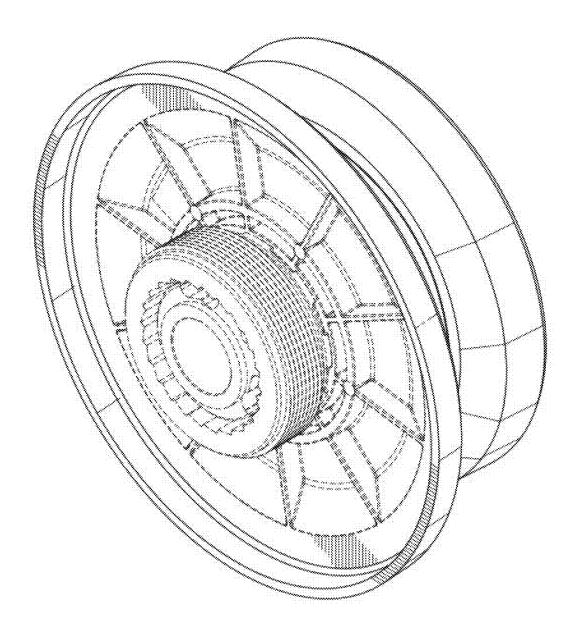
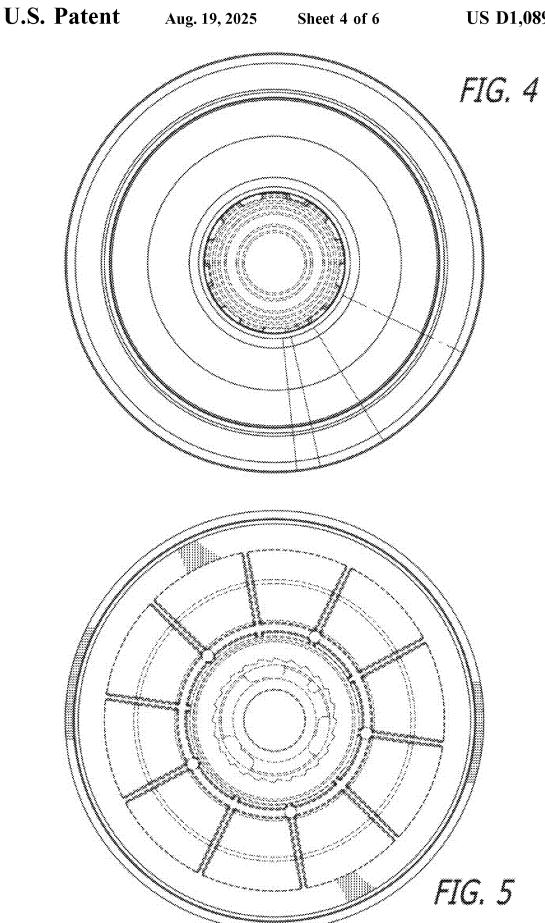


FIG. 3



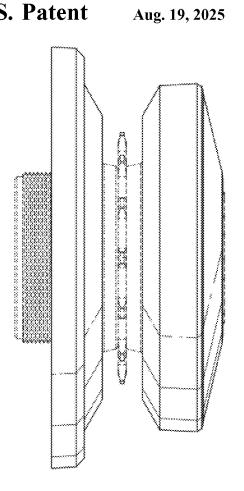


FIG. 6

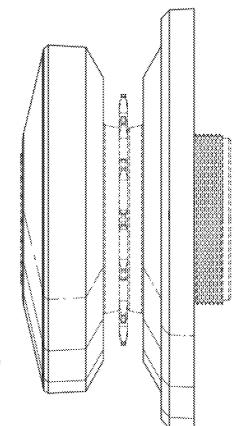
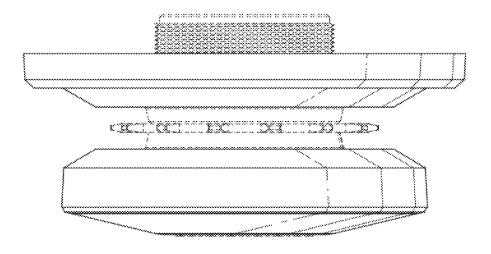


FIG. 7



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FIG. 8

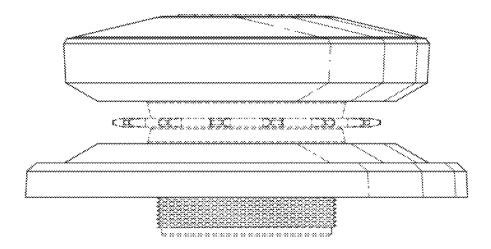


FIG. 9