



US00D972716S

(12) **United States Design Patent** (10) **Patent No.:** **US D972,716 S**  
**Prentice et al.** (45) **Date of Patent:** **\*\* Dec. 13, 2022**

(54) **HEADGEAR ASSEMBLY** 16/0644; A61M 16/0816; A61M 16/08;  
A61M 16/0666; A61M 2210/0618  
(71) Applicant: **Fisher & Paykel Healthcare Limited,** See application file for complete search history.  
Auckland (NZ)

(72) Inventors: **Craig Robert Prentice,** Auckland (NZ);  
**Bernard Tsz Lun Ip,** Auckland (NZ);  
**Richard John Boyes,** Auckland (NZ);  
**Thomas Mark Richardson,** Auckland  
(NZ); **Gareth Thomas McDermott,**  
Auckland (NZ); **Jonathan Mark**  
**Downey,** Auckland (NZ); **Matthew**  
**Roger Stephenson,** Auckland (NZ)

(73) Assignee: **Fisher & Paykel Healthcare Limited,**  
Auckland (NZ)

(\*\*) Term: **15 Years**

(21) Appl. No.: **29/765,549**

(22) Filed: **Jan. 8, 2021**

(56) **References Cited**  
U.S. PATENT DOCUMENTS

2,228,218	A	1/1941	Schwartz
2,415,846	A	2/1947	Randall
3,037,501	A	6/1962	Miller
4,167,185	A	9/1979	Lewis
4,384,577	A	5/1983	Huber et al.
5,349,949	A	9/1994	Schegerin
5,353,789	A	10/1994	Schlobohm
D377,089	S	12/1996	Starr
5,921,239	A	7/1999	McCall et al.
6,123,071	A	9/2000	Berthon-Jones
6,269,814	B1	8/2001	Blaszczkiewicz et al.
6,374,826	B1	4/2002	Gunaratnam et al.
6,467,483	B1	10/2002	Kopacko et al.
D476,732	S	7/2003	Smart
6,651,663	B2	11/2003	Barnett et al.
D486,226	S	2/2004	Guney et al.
D498,529	S	11/2004	Kwok
6,851,428	B2	2/2005	Dennis
7,237,551	B2	7/2007	Ho et al.
D549,322	S	8/2007	Stallard et al.
D555,785	S	11/2007	McAuley et al.
D557,411	S	12/2007	Smart et al.
D558,334	S	12/2007	Stallard et al.
D582,546	S	12/2008	Fujiura et al.
D583,930	S	12/2008	McAuley et al.
D586,458	S	2/2009	Kooij et al.
D586,906	S	2/2009	Stallard et al.
7,523,754	B2	4/2009	Lithgow et al.
D595,841	S	7/2009	McAuley et al.
D597,661	S	8/2009	Reid et al.
7,665,464	B2	2/2010	Kopacko et al.
D612,483	S	3/2010	Chang
D612,932	S	3/2010	Davidson et al.
D614,763	S	4/2010	Maurer et al.
D624,642	S	9/2010	Collazo et al.
7,827,990	B1	11/2010	Melidis et al.
7,861,718	B2	1/2011	Janbakhsh et al.
D639,419	S	6/2011	Eves et al.
D639,932	S	6/2011	D'Souza et al.
7,971,590	B2	7/2011	Frater et al.
7,992,560	B2	8/2011	Burton et al.
D645,955	S	9/2011	Kooij et al.
D653,328	S	1/2012	Eves
D656,607	S *	3/2012	Gunaratnam
8,171,933	B2	5/2012	Xue et al.

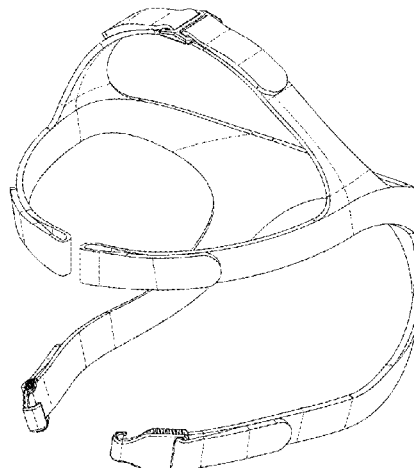
**Related U.S. Application Data**

(63) Continuation of application No. 29/654,894, filed on Jun. 28, 2018, now Pat. No. Des. 917,040, which is a continuation of application No. 29/581,830, filed on Oct. 21, 2016, now Pat. No. Des. 824,511, which is a continuation of application No. 29/472,124, filed on Nov. 8, 2013, now Pat. No. Des. 770,035, which is a continuation of application No. 29/401,929, filed on Sep. 16, 2011, now Pat. No. Des. 693,459.

(51) **LOC (13) Cl.** ..... **29-02**

(52) **U.S. Cl.**  
USPC ..... **D24/110.1**  
CPC ..... **A61M 16/06** (2013.01)

(58) **Field of Classification Search**  
USPC ..... D24/110.1-110.11, 127, 164;  
D29/108-110  
CPC ..... A61M 16/0683; A61M 16/0605; A61M  
16/0622; A61M 16/06; A61M 16/0616;  
A61M 16/0661; A61M 16/0633; A61M



8,220,459	B2	7/2012	Davidson et al.	2018/0256844	A1	9/2018	Galgali et al.
8,230,861	B2	7/2012	Ho	2019/0001095	A1	1/2019	Rose et al.
D665,494	S	8/2012	Stallard et al.	2019/0175863	A1*	6/2019	Hocking ..... A61M 16/0611
8,245,711	B2	8/2012	Matula, Jr. et al.	2020/0246571	A1	8/2020	Prentice et al.
8,297,283	B2	10/2012	Hitchcock et al.				
D693,459	S	11/2013	Prentice				
D696,767	S *	12/2013	Scheiner ..... D24/110.1				
D706,413	S	6/2014	Veliss	AU	2006284507	3/2007	
D716,505	S	10/2014	Wu	CN	1784250	6/2006	
D716,506	S	10/2014	Wu	CN	101227947	7/2008	
8,869,797	B2	10/2014	Davidson et al.	CN	101242866	8/2008	
8,931,484	B2	1/2015	Melidis et al.	CN	101301505	11/2008	
D730,511	S	5/2015	Mark	CN	101370557	2/2009	
9,095,673	B2	8/2015	Barlow et al.	CN	101954140	1/2011	
D740,934	S *	10/2015	Formica ..... D24/110.1	EP	1 258 266	11/2002	
D740,935	S	10/2015	Cullen	EP	1 982 740	10/2008	
9,186,474	B1	11/2015	Rollins	EP	2 266 652	12/2010	
D754,328	S	4/2016	Bowsher	EP	2 668 971	12/2013	
D769,440	S *	10/2016	Amarasinghe ..... D24/110.4	EP	3 372 268	9/2018	
D770,035	S	10/2016	Prentice	GB	2393126	11/2004	
D784,515	S *	4/2017	Prentice ..... D24/110.1	GB	2412594	10/2005	
D794,772	S	8/2017	Cullen	WO	WO 01/32250	5/2001	
D797,277	S *	9/2017	Blanch ..... D24/110	WO	WO 01/62326	8/2001	
D810,277	S *	2/2018	Amarasinghe ..... D24/110.1	WO	WO 04/041341	5/2004	
9,901,699	B2	2/2018	Veliss et al.	WO	WO 04/071565	8/2004	
D824,511	S	7/2018	Prentice	WO	WO 05/094928	10/2005	
D837,971	S *	1/2019	Prentice ..... D24/110.1	WO	WO 05/123166	12/2005	
10,201,678	B2	2/2019	Guney et al.	WO	WO 06/074513	7/2006	
10,258,757	B2	4/2019	Allan et al.	WO	WO 06/130903	12/2006	
D849,930	S *	5/2019	Walls ..... D24/110.1	WO	WO 07/145534	12/2007	
10,413,693	B2	9/2019	Prentice et al.	WO	WO 08/040050	4/2008	
D868,959	S *	12/2019	Bornholdt ..... D24/110.1	WO	WO 09/108995	9/2009	
D870,266	S *	12/2019	Bornholdt ..... D24/110.1	WO	WO 10/009877	1/2010	
D874,646	S *	2/2020	Gordon ..... D24/110.4	WO	WO 10/066004	6/2010	
D876,616	S *	2/2020	Prentice ..... D24/110.1	WO	WO 10/071453	6/2010	
D879,287	S *	3/2020	Walls ..... D24/110.4	WO	WO 10/131189	11/2010	
10,653,854	B2	5/2020	Prentice et al.	WO	WO 10/135785	12/2010	
D902,383	S *	11/2020	Bornholdt ..... D24/110.1	WO	WO 10/148453	12/2010	
D902,384	S *	11/2020	Bornholdt ..... D24/110.1	WO	WO 11/060479	5/2011	
D908,206	S *	1/2021	Prentice ..... D24/110.1	WO	WO 12/045127	4/2012	
D917,040	S	4/2021	Prentice	WO	WO 12/140514	10/2012	
D942,614	S *	2/2022	Blanch ..... D24/110.4	WO	WO 13/006065	1/2013	
2004/0112386	A1	6/2004	Griffiths	WO	WO 14/109749	7/2014	
2006/0118117	A1	6/2006	Berthon-Jones et al.	WO	WO 14/129913	8/2014	
2006/0207599	A1	9/2006	Busch	WO	WO 18/007966	1/2018	
2007/0044804	A1	3/2007	Matula, Jr. et al.	WO	WO 18/064712	4/2018	
2007/0125385	A1	6/2007	Ho et al.				
2007/0163594	A1	7/2007	Ho et al.				
2007/0163600	A1	7/2007	Hoffman				
2007/0215161	A1	9/2007	Frater et al.				
2007/0267017	A1	11/2007	Edwin McAuley et al.				
2008/0110464	A1	5/2008	Davidson et al.				
2008/0178886	A1	7/2008	Lieberman et al.				
2008/0257354	A1	10/2008	Davidson et al.				
2008/0271739	A1	11/2008	Facer et al.				
2009/0038619	A1	2/2009	Ho et al.				
2009/0044808	A1	2/2009	Guney et al.				
2009/0139526	A1	6/2009	Melidis et al.				
2009/0183734	A1	7/2009	Kwok				
2010/0000543	A1	1/2010	Berthon-Jones et al.				
2010/0006101	A1	1/2010	McAuley et al.				
2010/0024811	A1	2/2010	Henry				
2010/0043798	A1	2/2010	Sullivan et al.				
2010/0122701	A1	5/2010	Gunaratnam et al.				
2011/0072553	A1*	3/2011	Ho ..... A61M 16/0683 2/171.5				
2012/0152255	A1	6/2012	Barlow				
2012/0318265	A1	12/2012	Amirav et al.				
2014/0096774	A1	4/2014	Olsen				
2014/0144449	A1	5/2014	Davidson et al.				
2014/0261432	A1	9/2014	Eves et al.				
2015/0000671	A1*	1/2015	Frerichs ..... A61M 16/0633 29/428				
2015/0246198	A1	9/2015	Bearne et al.				
2016/0015922	A1	1/2016	Chodkowski et al.				
2017/0246411	A1	8/2017	Mashal et al.				
2017/0368288	A1	12/2017	Stephens et al.				
2018/0214655	A1*	8/2018	Kooij ..... A61M 16/0683				
2018/0250483	A1	9/2018	Olsen et al.				

FOREIGN PATENT DOCUMENTS

AU	2006284507	3/2007
CN	1784250	6/2006
CN	101227947	7/2008
CN	101242866	8/2008
CN	101301505	11/2008
CN	101370557	2/2009
CN	101954140	1/2011
EP	1 258 266	11/2002
EP	1 982 740	10/2008
EP	2 266 652	12/2010
EP	2 668 971	12/2013
EP	3 372 268	9/2018
GB	2393126	11/2004
GB	2412594	10/2005
WO	WO 01/32250	5/2001
WO	WO 01/62326	8/2001
WO	WO 04/041341	5/2004
WO	WO 04/071565	8/2004
WO	WO 05/094928	10/2005
WO	WO 05/123166	12/2005
WO	WO 06/074513	7/2006
WO	WO 06/130903	12/2006
WO	WO 07/145534	12/2007
WO	WO 08/040050	4/2008
WO	WO 09/108995	9/2009
WO	WO 10/009877	1/2010
WO	WO 10/066004	6/2010
WO	WO 10/071453	6/2010
WO	WO 10/131189	11/2010
WO	WO 10/135785	12/2010
WO	WO 10/148453	12/2010
WO	WO 11/060479	5/2011
WO	WO 12/045127	4/2012
WO	WO 12/140514	10/2012
WO	WO 13/006065	1/2013
WO	WO 14/109749	7/2014
WO	WO 14/129913	8/2014
WO	WO 18/007966	1/2018
WO	WO 18/064712	4/2018

\* cited by examiner

Primary Examiner — Richard E Chilcot

(74) Attorney, Agent, or Firm — Knobbe, Marten, Olson & Bear, LLP

(57) CLAIM

The ornamental design for a headgear assembly, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a headgear assembly; FIG. 2 is a rear perspective view of the headgear assembly of FIG. 1; FIG. 3 is a left side elevational view of the headgear assembly of FIG. 1; FIG. 4 is a right side elevational view of the headgear assembly of FIG. 1; FIG. 5 is a front elevational view of the headgear assembly of FIG. 1; FIG. 6 is a rear elevational view of the headgear assembly of FIG. 1; FIG. 7 is a top elevational view of the headgear assembly of FIG. 1; and,

FIG. 8 is a bottom elevational view of the headgear assembly of FIG. 1.

The broken lines represent portions of the headgear assembly that form no part of the claimed design.

**1 Claim, 4 Drawing Sheets**

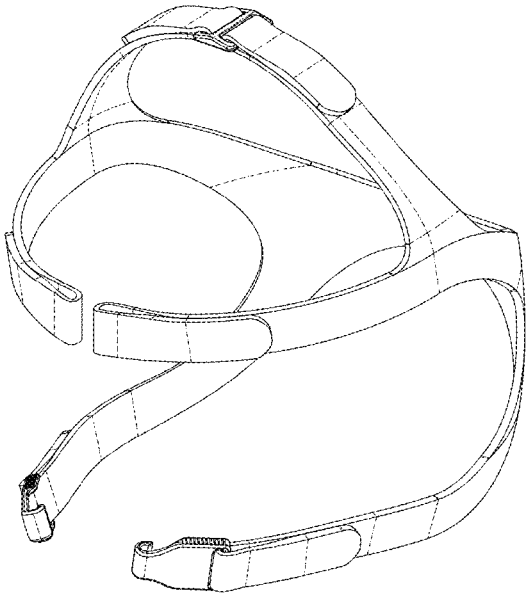


FIG. 1

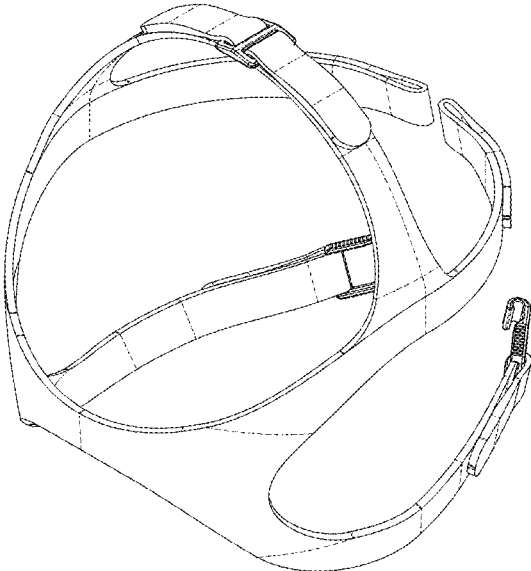


FIG. 2

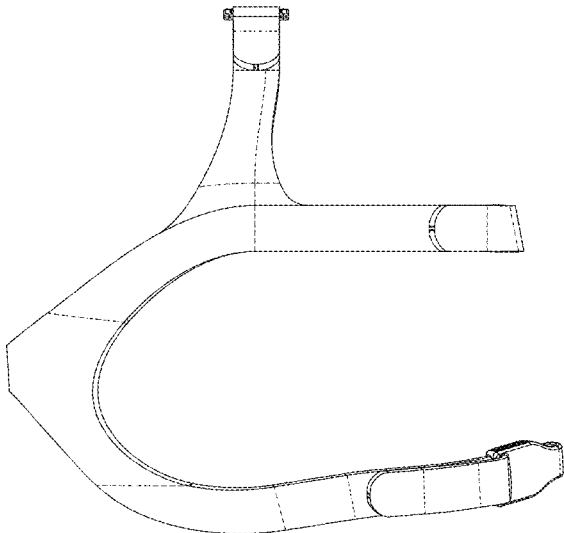


FIG. 3

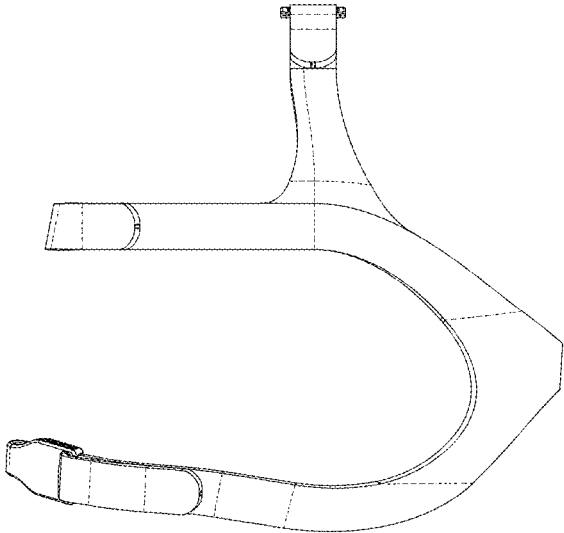


FIG. 4

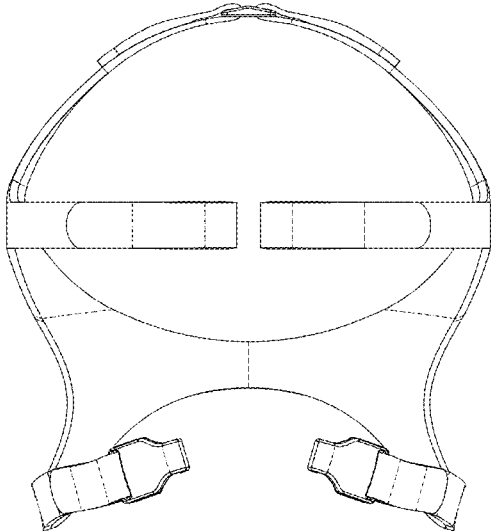


FIG. 5

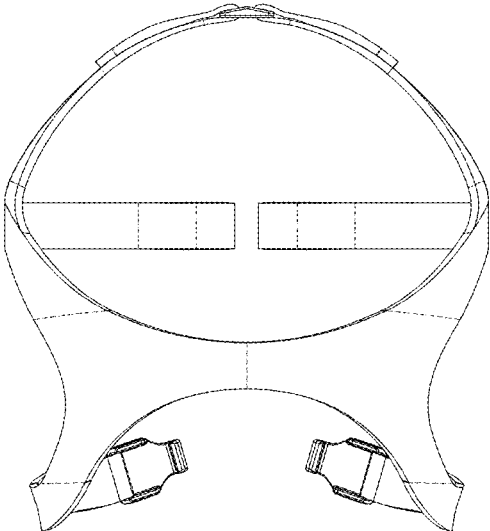


FIG. 6

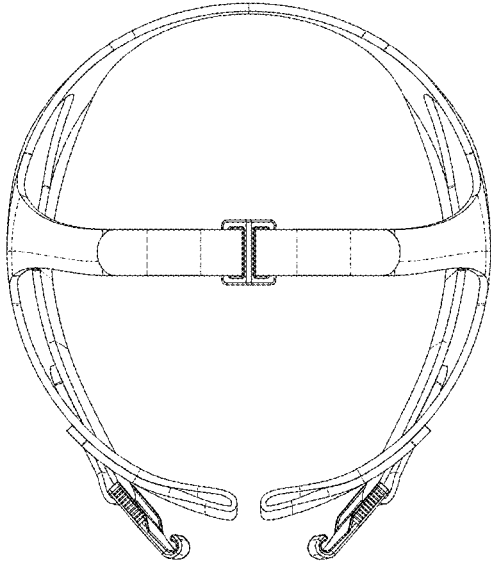


FIG. 7

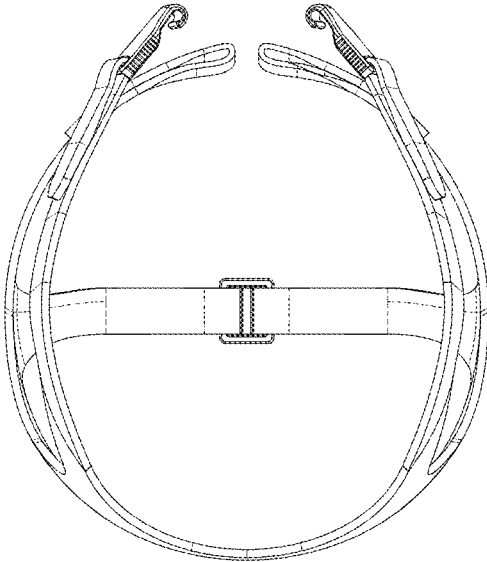


FIG. 8