



US00D856601S

(12) **United States Design Patent** (10) **Patent No.:** **US D856,601 S**  
**Bologna et al.** (45) **Date of Patent:** **\*\* Aug. 13, 2019**

- (54) **FOOTBALL HELMET**
- (71) Applicant: **Riddell, Inc.**, Des Plaines, IL (US)
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- (\*\*) Term: **15 Years**
- (21) Appl. No.: **29/683,503**
- (22) Filed: **Mar. 13, 2019**

- 1,655,007 A 1/1928 Boettge
- 1,669,914 A 5/1928 Rogers
- 1,691,202 A 11/1928 La Van
- 1,705,879 A 3/1929 Rodgers
- 1,714,275 A 5/1929 Mullins
- D80,880 S 4/1930 Dickman
- D81,055 S 4/1930 Heater
- 1,833,708 A 11/1931 Ford
- 1,839,657 A 1/1932 Duchek
- 1,841,232 A 1/1932 Wells

(Continued)

**FOREIGN PATENT DOCUMENTS**

- CA 100226 A 7/1906
- CH 692011 1/2002

(Continued)

**Related U.S. Application Data**

- (63) Continuation of application No. 29/453,426, filed on Apr. 29, 2013, which is a continuation of application No. 29/391,016, filed on May 2, 2011, now Pat. No. Des. 681,281.
- (51) **LOC (12) Cl.** ..... **29-02**
- (52) **U.S. Cl.**  
USPC ..... **D29/122**
- (58) **Field of Classification Search**  
USPC ..... D29/102-107, 122  
CPC ..... A63B 71/10; A42B 3/222; A42B 3/166;  
A42B 3/04; A42B 3/20; A42B 3/00  
See application file for complete search history.

**OTHER PUBLICATIONS**

Face-Off Lacrosse Yearbook 2003, Spring 2003, vol. 10 (3 pages).  
(Continued)

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(57) **CLAIM**

We claim the ornamental design for a football helmet, as shown and described.

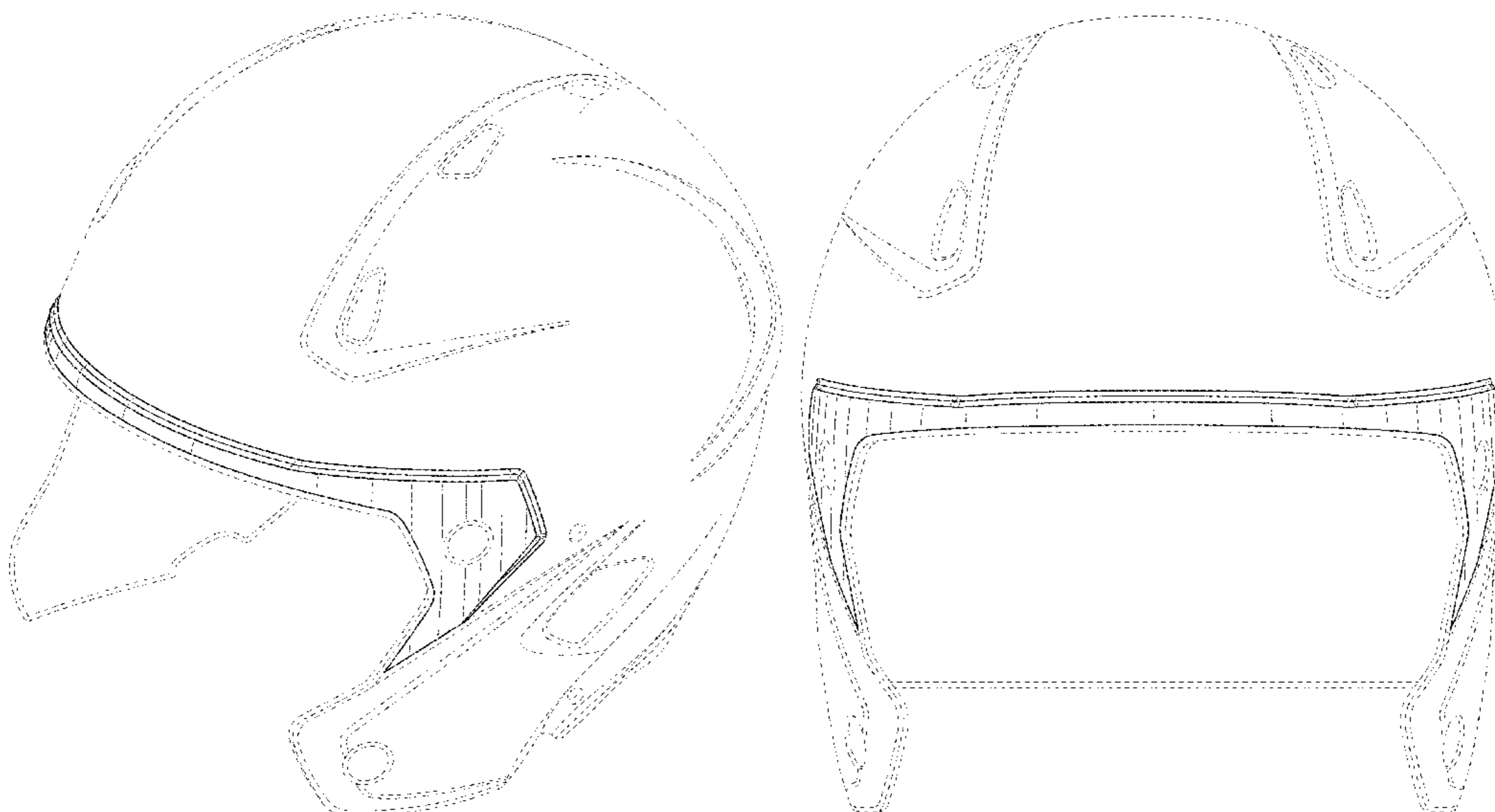
**DESCRIPTION**

FIG. 1 is a perspective view of a football helmet showing our new design;  
FIG. 2 is a front view thereof;  
FIG. 3 is a side view thereof;  
FIG. 4 is a top view thereof;  
FIG. 5 is a rear view thereof; and,  
FIG. 6 is a bottom view thereof.  
The details shown in broken lines form no part of the claimed design.

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

- 622,677 A 4/1899 Gallagher
- 1,060,220 A 4/1913 White
- 1,080,690 A 12/1913 Hipkiss
- 1,203,564 A 11/1916 April
- 1,262,818 A 4/1918 McGill
- 1,449,183 A 3/1923 Johnstone
- 1,522,952 A 1/1925 Goldsmith
- 1,602,727 A 10/1926 Turner
- 1,637,692 A 8/1927 Fitzpatrick

**1 Claim, 6 Drawing Sheets**





# US D856,601 S

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(56)

## References Cited

### U.S. PATENT DOCUMENTS

4,390,995 A	7/1983	Walck	5,267,353 A	12/1993	Milligan
4,398,306 A	8/1983	Gooding	5,271,103 A	12/1993	Darnell
4,404,690 A	9/1983	Farquharson	5,287,562 A	2/1994	Rush
D271,249 S	11/1983	Farquharson	5,291,880 A	3/1994	Almovist
D271,347 S	11/1983	Bourque	5,293,649 A	3/1994	Corpus
4,434,514 A	3/1984	Sundahl	D347,300 S	5/1994	Gentes
4,461,044 A	7/1984	Reiterman	D348,545 S	7/1994	Egger
4,463,456 A	8/1984	Hanson	D348,752 S	7/1994	Ho
4,475,248 A	10/1984	L Abbe	D350,710 S	9/1994	Keiffer
4,477,929 A	10/1984	Mattsson	5,347,660 A	9/1994	Zide
4,566,137 A	1/1986	Gooding	D352,802 S	11/1994	Jeng
D283,268 S	4/1986	Rebiskie	D352,803 S	11/1994	Sasaki
4,587,677 A	5/1986	Clement	D355,394 S	2/1995	Bezener
D285,980 S	10/1986	McNabb	D357,554 S	4/1995	Garneau
4,627,115 A	12/1986	Broersma	D357,555 S	4/1995	Brueckner
4,633,531 A	1/1987	Nimmons	D358,003 S	5/1995	Losi
4,646,368 A	3/1987	Infusino	D358,004 S	5/1995	Losi
4,651,356 A	3/1987	Zide	D358,232 S	5/1995	Bourque
4,665,569 A	5/1987	Santini	D358,905 S	5/1995	Newman
4,667,348 A	5/1987	Sundahl	5,412,814 A	5/1995	Pernicka
4,677,694 A	7/1987	Crow	5,418,257 A	5/1995	Weisman
4,692,947 A	9/1987	Black	D361,407 S	8/1995	Ho
4,706,305 A	11/1987	Cho	D361,408 S	8/1995	Ho
D295,800 S	5/1988	Shelton	D361,409 S	8/1995	Ho
D295,902 S	5/1988	Foulkes	D362,084 S	9/1995	Egger
4,741,054 A	5/1988	Mattes	5,448,780 A	9/1995	Gath
4,744,107 A	5/1988	Foehl	5,450,631 A	9/1995	Egger
4,766,614 A	8/1988	Cantwell	5,452,979 A	9/1995	Cosenza
4,766,616 A	8/1988	Donahue	5,461,730 A	10/1995	Carrington
4,774,729 A	10/1988	Coates	D364,487 S	11/1995	Tutton
D298,367 S	11/1988	Ball	5,483,699 A	1/1996	Pernicka
4,794,652 A	1/1989	Piech Von Planta	5,493,736 A	2/1996	Allison
D299,978 S	2/1989	Chiarella	5,494,323 A	2/1996	Huang
4,808,469 A	2/1989	Hiles	5,502,843 A	4/1996	Strickland
4,831,668 A	5/1989	Schulz	5,522,091 A	6/1996	Rudolf
4,837,866 A	6/1989	Rector	D371,867 S	7/1996	Losi, II
4,853,980 A	8/1989	Zarotti	D371,868 S	7/1996	Losi
4,866,792 A	9/1989	Arai	D371,869 S	7/1996	Chen
D303,851 S	10/1989	Gentes	D372,342 S	7/1996	Chen
4,885,806 A	12/1989	Heller	5,539,936 A	7/1996	Thomas
4,885,807 A	12/1989	Snow, Jr.	5,553,330 A	9/1996	Carveth
4,903,346 A	2/1990	Reddemann	D378,236 S	2/1997	Zanotto
4,903,350 A	2/1990	Gentes	D378,624 S	3/1997	Chartrand
4,903,381 A	2/1990	Fohl	D380,870 S	7/1997	Szabados
4,916,759 A	4/1990	Arai	D382,671 S	8/1997	Shewchenko
D309,512 S	7/1990	Crow	5,655,227 A	8/1997	Sundberg
4,937,888 A	7/1990	Straus	D383,953 S	9/1997	DeFilippo
4,947,490 A	8/1990	Hayden	5,661,854 A	9/1997	March, II
5,014,365 A	5/1991	Schulz	5,675,875 A	10/1997	Servatius
5,023,958 A	6/1991	Rotzin	D387,501 S	12/1997	Cheng
5,035,009 A	7/1991	Wingo, Jr.	D388,551 S	12/1997	Lu
D319,112 S	8/1991	Broersma	D389,280 S	1/1998	Ho
5,044,016 A	9/1991	Coombs	5,724,681 A	3/1998	Sykes
5,061,112 A	10/1991	Monford	5,732,414 A	3/1998	Monica
5,083,321 A	1/1992	Davidsson	5,734,994 A	4/1998	Rogers
5,090,061 A	2/1992	Kamata	5,737,770 A	4/1998	Chen
5,093,937 A	3/1992	Kamata	5,790,988 A	8/1998	Guadagnino, Jr.
5,093,939 A	3/1992	Noyerie	5,794,274 A	8/1998	Kraemer
5,100,272 A	3/1992	Jadoul	5,799,337 A	9/1998	Brown
5,101,517 A	4/1992	Douglas	5,829,065 A	11/1998	Cahill
5,119,516 A	6/1992	Broersma	5,867,840 A	2/1999	Hirosawa
5,129,108 A	7/1992	Copeland	D406,399 S	3/1999	Hohdorf
5,136,728 A	8/1992	Kamata	5,883,145 A	3/1999	Hurley
5,142,700 A	8/1992	Reed	D408,236 S	4/1999	Rennick
5,165,116 A	11/1992	Simpson	5,913,412 A	6/1999	Huber
D331,645 S	12/1992	Gallet	5,915,537 A	6/1999	Dallas
D332,507 S	1/1993	Anderson	D412,376 S	7/1999	Jurga
5,175,889 A	1/1993	Infusino	D412,766 S	8/1999	Tang
5,177,815 A	1/1993	Andujar	5,930,840 A	8/1999	Arai
5,177,816 A	1/1993	Schmidt	5,938,878 A	8/1999	Hurley
5,203,034 A	4/1993	Foehl	5,940,890 A	8/1999	Dallas
5,231,703 A	8/1993	Garneau	5,943,706 A	8/1999	Miyajima
D339,427 S	9/1993	Gentes	5,946,735 A	9/1999	Bayes
5,263,203 A	11/1993	Kraemer	5,950,244 A	9/1999	Fournier
5,263,204 A	11/1993	Butsch	5,953,761 A	9/1999	Jurga
			D415,593 S	10/1999	Tang
			5,963,990 A	10/1999	White
			5,966,744 A	10/1999	Smith, Jr.
			5,978,973 A	11/1999	Chartrand



(56)

**References Cited**

## U.S. PATENT DOCUMENTS

2005/0235403	A1	10/2005	Kraemer
2005/0278835	A1	12/2005	Ide
2006/0031978	A1	2/2006	Pierce
2006/0038694	A1	2/2006	Naunheim
2006/0112477	A1	6/2006	Schneider
2007/0151003	A1	7/2007	Shih
2007/0157370	A1	7/2007	Joubert Des Ouches
2007/0163158	A1	7/2007	Bentz
2007/0192944	A1	8/2007	Kraemer
2008/0052808	A1	3/2008	Leick
2008/0163410	A1	7/2008	Udelhofen
2008/0250550	A1	10/2008	Bologna
2009/0106882	A1	4/2009	Nimmons et al.
2009/0178184	A1	7/2009	Brine
2009/0260133	A1	10/2009	Del Rosario
2009/0265841	A1	10/2009	Ferrara
2010/0005573	A1	1/2010	Rudd
2011/0203038	A1	8/2011	Jones
2011/0209272	A1	9/2011	Drake
2011/0214224	A1	9/2011	Maddux
2011/0277221	A1	11/2011	Withnall
2012/0011639	A1	1/2012	Beauchamp
2012/0036619	A1	2/2012	Ytterborn
2012/0060251	A1	3/2012	Schimpf
2012/0079646	A1	4/2012	Belanger
2013/0340146	A1	12/2013	Dekker
2014/0007327	A1	1/2014	Infusino
2014/0150169	A1	6/2014	Infusino
2015/0135414	A1	5/2015	Infusino

## FOREIGN PATENT DOCUMENTS

CN	2870519	Y	2/2007
CN	2896943	Y	5/2007
DE	8321097		10/1983
DE	3222681		12/1983
DE	3338188		5/1985
DE	3603234		8/1987
DE	3632525		8/1996
DE	19745960		10/1997
EP	0512193		11/1992
EP	1199000	B1	5/2005
EP	1972220	B1	2/2011
FR	1528113		6/1968
GB	256430		8/1926
GB	1354719		6/1974
JP	S57205511		12/1982
JP	H05132809		5/1993
JP	572922		10/1993
JP	199421667		3/1994
JP	H07109609		4/1995
JP	H07126908		5/1995
JP	H1077521		3/1998
JP	H10195707		7/1998
JP	H11189910		7/1999
JP	2000265315		9/2000
JP	2001003220		1/2001
JP	2001020121		1/2001
JP	2002161426		6/2002
WO	9534229		12/1995
WO	9911152		3/1999
WO	9956572		11/1999
WO	0152676		7/2001
WO	2007013106	A1	2/2007

## OTHER PUBLICATIONS

Four Photographs of Riddell, Inc.'s VSR4 football helmet which was commercially available prior to May 1, 2001 (4 pages).  
Decision, Institution of Inter Partes Review 37 C.F.R. 42.108, Entered Feb. 10, 2017, Case IPR2016-01649, Patent 8,813,269 B2 (33 pages).  
Patent Owner's Preliminary Response, Case No. IPR2016-01649, U.S. Pat. No. 8,813,269 (61 Pages).

Petition for Inter Partes Review of U.S. Pat. No. 8,813,269 filed Aug. 19, 2016 (90 pages).  
Wilson Trade Price Edition Fall and Winter 1964 Catalog (152 pages).  
Wilson Trade Price Edition 1953 Football Catalog (56 pages).  
Wilson Trade Price Edition 1952-1953 Football Catalog (100 pages).  
Wilson Sporting Goods Company Fall and Winter 1976 Catalog (28 pages).  
Wilson Sporting Goods Company Fall and Winter 1972 Catalog (88 pages).  
Virginia Tech, Adult Football Helmet Detailed Ratings (May 2011).  
Stall & Dean Fall and Winter Catalog 1960-1961 (72 pages).  
Sports Review Football 1954, Rawlings HC20 and TH24 Helmet (2 page).  
Sears Wish Book for the 1971 Christmas Season Catalog (11 pages).  
Sears Fall and Winter Catalog 1966 (2 pages).  
Sears Fall and Winter Catalog 1963 (2 pages).  
Sears Fall and Winter 1968 Catalog T-Bar Helmet (4 pages).  
Sears Catalog, Cicolac Plastic Helmet (2 pages).  
Schutt 2009 Football Quick Guide (12 pages).  
Schutt 2009 Football Catalog (32 pages).  
Schutt 2007 ION 4D Information Sheet (2 pages).  
Schutt 2005 Fitting Guide (32 pages).  
Schutt 2001 Football Catalog (46 pages).  
Scholastic Coach, MacGregor E700 Helmet, Jan. 1959 (2 pages).  
Robert Smith, Illustrated History of Pro Football (1970), cover illustration (2 pages).  
Riddell Team Tested Tuff Catalog (31 pages).  
Riddell Institutional Football Catalog (33 pages).  
Riddell Inc., Screenshots of <http://www.riddell.com/history>, captured Feb. 20, 2014 (2 pages).  
Riddell Bio Lite Helmet, 1988 (3 pages).  
Riddell 2010 Speed Fitting Guide (4 pages).  
Riddell 2010 Football Catalog (140 pages).  
Riddell 2009 Football Catalog (132 pages).  
Riddell 2007 Football Catalog (108 pages).  
Riddell 2007 Catalog (192 pages).  
Riddell 2006 Football Catalog (84 pages).  
Riddell 2006 Catalog (160 pages).  
Riddell 2005 Catalog (164 pages).  
Riddell 2004 Football Catalog (88 pages).  
Riddell 2003 Football Catalog (92 pages).  
Riddell 2002 Football Catalog (88 pages).  
Riddell 2001 Football Catalog (94 pages).  
Riddell 2001 Baseball Catalog (79 pages).  
Riddell 2000 Football Catalog (76 pages).  
Riddell 2000 Baseball Catalog (52 pages).  
Riddell 1998-1999 Football Catalog (72 pages).  
Riddell 1998 Football Air Catalog (16 pages).  
Riddell 1997-1998 Football Catalog (55 pages).  
Riddell 1996-1997 Football Catalog (40 pages).  
Riddell 1996-1997 Baseball and Softball Catalog (24 pages).  
Riddell 1995 Factory Direct Savings Catalog (22 pages).  
Riddell 1994 Football Catalog (20 pages).  
Riddell 1993 Product Catalog (12 pages).  
Riddell 1993 Football Catalog (32 pages).  
Riddell 1992 Catalog (40 pages).  
Riddell 1991 Catalog (11 pages).  
Riddell 1990 Football Catalog (32 pages).  
Riddell 1989 Football Catalog (24 pages).  
Riddell 1989 Football Air Catalog (16 pages).  
Riddell 1988 Equipment Catalog (24 pages).  
Riddell 1987 Equipment Catalog (24 pages).  
Riddell 1986 Equipment Catalog (24 pages).  
Riddell 1985 Equipment Catalog (32 pages).  
Riddell 1984 Equipment Catalog (29 pages).  
Riddell 1983 Equipment Catalog (34 pages).  
Riddell 1980 Equipment Catalog (16 pages).  
Riddell 1979 Equipment Catalog (23 pages).  
Riddell 1978 Equipment Catalog (24 pages).  
Riddell 1977 Equipment Catalog (24 pages).  
Riddell 1976 Equipment Catalog (20 pages).  
Riddell 1975 Equipment Catalog (19 pages).

(56)

**References Cited**

## OTHER PUBLICATIONS

- Riddell 1974 Equipment Catalog (18 pages).  
 Riddell 1973 Equipment Catalog (11 pages).  
 Riddell 1972 Equipment Catalog (14 pages).  
 Riddell 1970 Equipment Catalog (18 pages).  
 Riddell 1969 Equipment Catalog (14 pages).  
 Riddell 1967 Football Equipment Catalog (16 pages).  
 Replacement Comments by Third-party Requester Pursuant to 35 U.S.C. § 314(b)(2) and 37 C.F.R. § 1.947 in Control No. 95/002,117. (33 pages).  
 Rawlings Catalog Fall and Winter Retail Sher-wood Adirondack 1975 (28 pages).  
 Rawlings Catalog Fall and Winter Institutional 1971 (92 pages).  
 Rawlings Catalog Fall and Winter Equipment and Clothing 1981 (68 pages).  
 Rawlings Catalog Fall and Winter Athletic Equipment 1964 (76 pages).  
 Rawlings Catalog Fall and Winter Athletic Equipment 1963 (72 pages).  
 Rawlings Catalog Fall and Winter Athletic Equipment 1959-1960 (84 pages).  
 Rawlings Catalog Fall and Winter Athletic Equipment 1957-1958 (82 pages).  
 Rawlings Catalog Fall and Winter Athletic Equipment 1955-1956 (83 pages).  
 Rawlings Advance Football and Basketball Catalog 1957 (46 pages).  
 Rawlings 1955-56 Advance Football and Basketball Catalog (36 pages).  
 Photographs of four (4) helmets bearing labels B1-135, C1-7, D1-D5, G1-G5, 13 pages, commercially available before Apr. 29, 2003. (13 pages).  
 Photographs of three (3) helmets bearing labels A1-A6, E1-E5, and F1-F5, 9 pages, commercially available before May 1, 2001. (9 pages).  
 Midco Fall and Winter, H-400M Helmet, 1975 (8 pages).  
 Micky Collins et al., Examining Concussion Rates and Return to Play in High School Football Players Wearing Newer Helmet Technology, 58 *Neurosurgery* 275 (2006) (12 pages).  
 Medalist Gladiator 1989 Fall and Winter Catalog (20 pages).  
 Marvel Comics, Magneto Revolution (2000), cover illustration (2 pages).  
 MacGregor Sports Equipment Fall and Winter 1959 (84 pages).  
 Kranos Corp.'s random collection of select catalog images, undated, (76 pages).  
 J.A. Dubow Sporting Goods Corp., The Choice of Champions Serving the Sporting Goods Industry for Over 4 Decades 1912-1961 (32 pages).  
 Hutch Catalog 1976 (40 pages).  
 Great Atlantic C Lacrosse Company, Feb. 2000 (1 page).  
 GB Lax Gait Brothers Lacrosse Magazine 2002 (24 pages).  
 Declaration of Thad M. Ide Under 37 CFR § 1.131 (with Exhibits A-G) in Control No. 95/002,117. (48 pages).  
 David Bushing, Sports Equipment Price Guide (1995), pp. 236-238, 240-241, 243-244, 263.  
 Bike Football Catalog 2002 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 65, No. 7, Mar. 1985 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 59, No. 6, Feb. 1979 (3 pages).  
 Athletic Journal Catalog Excerpt, vol. 57, No. 4, Dec. 1976 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 55, No. 3, Nov. 1974 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 53, No. 8, Apr. 1973 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 51, No. 6, Feb. 1971 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 50, No. 8, Apr. 1970 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 49, No. 8, Apr. 1969 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 48, vol. 10, Jun. 1968 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 48, No. 3, Nov. 1967 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 46, No. 3, Nov. 1965 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 46, No. 10, Jun. 1966 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 45, No. 9, May 1965 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 45, No. 10, Jun. 1965 (3 pages).  
 Athletic Journal Catalog Excerpt, vol. 44, No. 9, May 1964 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 44, No. 2, Oct. 1964 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 44, No. 10, Jun. 1964 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 43, No. 8, Apr. 1963 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 43, No. 5, Jan. 1963 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 41, No. 9, May 1961 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 41, No. 10, Jun. 1961 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 40, No. 9, May 1960 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 40, No. 4, Dec. 1959 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 40, No. 10, Jun. 1960 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 38, No. 6, Feb. 1958 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 38, No. 10, Jun. 1959 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 37, No. 9, May 1957 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 37, No. 7, Mar. 1957 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 37, No. 6, Feb. 1957 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 37, No. 5, Jan. 1957 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 37, No. 4, Dec. 1956 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 37, No. 2, Oct. 1956 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 36, No. 8, Apr. 1956 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 36, No. 7, Mar. 1956 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 36, No. 5, Jan. 1956 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 35, No. 6, Feb. 1955 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 35, No. 9, May 1955 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 35, No. 10, Jun. 1956 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 48, No. 5, Jan. 1968 (2 pages).  
 Athletic Journal Catalog Excerpt, vol. 36, No. 3, Nov. 1955 (2 pages).  
 1997 JOFA Hockey Equipment Catalog (60 pages).  
 Virginia Tech, Adult Football Helmet Evaluation Methodology (May 9, 2011) (5 pages).  
 The Draper Maynard Co., D&M Sporting Goods Catalog, 1925-1926.  
 Steven Rowson & Stefan M. Duma, "Development of the Star Evaluation System for Football Helmets: Integrating Player Head

(56)

**References Cited**

## OTHER PUBLICATIONS

Impact Exposure and Risk of Concussion”, *Ann. of Biomedical Eng.*, vol. 39, No. 8, pp. 2130-2140 (Aug. 2011).

Shoei Catalog 1999 (16 pages).

Screenshots from 1997 Starship Troopers Movie (12 pages).

Scholastic Coach, Spalding No. 100, Dec. 1950 (2 pages).

Scholastic Coach, Spalding Helmet, Mar. 1959 (2 pages).

Rawlings Catalog Fall and Winter Athletic Equipment 1949-1950 (74 pages).

Rawlings Catalog Fall and Winter Athletic Equipment 1948-1949 (2 pages).

King-O’shea Turret Tenite Helmet 1954 (1 page).

John Field, Patton of the Armored Force, *LIFE Magazine*, Nov. 30, 1942 (4 pages).

Easton Bell Sports, Riddell Fact Sheet. [www.eastonbellsports.com/riddell-fact-sheet](http://www.eastonbellsports.com/riddell-fact-sheet), 3 pages.

Declaration of Dr. James Newman under 37 CFR 1.132 in Control No. 95/002,117 (28 pages).

Declaration of Allison Boersma Under 37 CFR § 1.132 in Control No. 95/002,117. (2 pages).

*Athletic Journal Catalog Excerpt*, vol. 61, No. 4, Dec. 1980 (2 pages).

*Athletic Journal Catalog Excerpt*, vol. 60, No. 8, Apr. 1980 (2 pages).

*Athletic Journal Catalog Excerpt*, vol. 57, No. 5, Jan. 1977 (6 pages).

*Athletic Journal Catalog Excerpt*, vol. 56, No. 5, Jan. 1976 (6 pages).

*Athletic Journal Catalog Excerpt*, vol. 49, No. 10, Jun. 1969 (2 pages).

*Athletic Journal Catalog Excerpt*, vol. 47, No. 3, Nov. 1966 (2 pages).

*Athletic Journal Catalog Excerpt*, vol. 36, No. 6, Feb. 1956 (2 pages).

*Athletic Journal Catalog Excerpt*, vol. 34, No. 7, Mar. 1954 (2 pages).

*Athletic Journal Catalog Excerpt*, vol. 34, No. 10, Jun. 1954 (2 pages).

*Athletic Journal Catalog Excerpt*, vol. 33, No. 9, May 1953 (2 pages).

*Athletic Journal Catalog Excerpt*, vol. 33, No. 8, Apr. 1953 (2 pages).

*Athletic Journal Catalog Excerpt*, vol. 32, No. 7, Mar. 1952 (2 pages).

*Athletic Journal Catalog Excerpt*, vol. 32, No. 6, Feb. 1952 (2 pages).

*Athletic Journal Catalog Excerpt*, vol. 32, No. 2, Oct. 1951 (2 pages).

*Athletic Journal Catalog Excerpt*, vol. 32, No. 10, Jun. 1952 (2 pages).

*Athletic Journal Catalog Excerpt*, vol. 31, vol. 6, Feb. 1951 (2 pages).

*Athletic Journal Catalog Excerpt*, vol. 31, No. 7, Mar. 1951 (2 pages).

*Athletic Journal Catalog Excerpt*, vol. 31, No. 4, Dec. 1950 (2 pages).

*Athletic Journal Catalog Excerpt*, vol. 31, No. 10, Jun. 1951 (2 pages).

*Athletic Journal Catalog Excerpt*, vol. 30, vol. 6, Feb. 1950 (2 pages).

*Athletic Journal Catalog Excerpt*, vol. 30, No. 9, May 1950 (2 pages).

*Athletic Journal Catalog Excerpt*, vol. 30, No. 7, Mar. 1950 (2 pages).

*Athletic Journal Catalog Excerpt*, vol. 30, No. 4, Dec. 1949 (2 pages).

*Athletic Journal Catalog Excerpt*, MacGregor E700 Helmet, Jan. 1959 (1 page).

Schutt’s Final Invalidation Contentions, Case 1:16-cv-04496 (104 pages).

Schutt’s Final Invalidation Contentions Exhibit A’818 Patent, Case 1:16-cv-04496 (904 pages).

Schutt’s Final Invalidation Contentions Exhibit AB1—Alternate Combos Under 103—Ear Openings, Case 1:16-cv-04496 (29 pages).

Schutt’s Final Invalidation Contentions Exhibit AB2—Alternate Combos Under 103—Raised Central Band, Case 1:16-cv-04496 (58 pages).

Schutt’s Final Invalidation Contentions Exhibit AB3—Alternate Combos Under 103—Vent Openings, Case 1:16-cv-04496 (47 pages).

Schutt’s Final Invalidation Contentions Exhibit AB4—Alternate Combos Under 103—Chin Strap, Case 1:16-cv-04496 (31 pages).

Schutt’s Final Invalidation Contentions Exhibit AB5—Alternate Combos Under 103—Face Guard, Case 1:16-cv-04496 (32 pages).

Schutt’s Final Invalidation Contentions Exhibit AB6—Alternate Combos Under 103—Offset Band, Case 1:16-cv-04496 (11 pages).

Schutt’s Final Invalidation Contentions Exhibit AB7—Alternate Combos Under 103—Inflation, Case 1:16-cv-04496 (21 pages).

Schutt’s Final Invalidation Contentions Exhibit B’118 Patent, Case 1:16-cv-04496 (415 pages).

Xenith’s Final Invalidation Contentions, Case 1:16-cv-04496 (31 pages).

Xenith’s Invalidation Contentions Exhibits C1-C11 818 chart, Case 1:16-cv-04496 (341 pages).

Xenith’s Invalidation Contentions Exhibits D1-D11 118 chart, Case 1:16-cv-04496 (457 pages).

Claim Construction Order, Case 1:16-cv-04496 (39 pages).

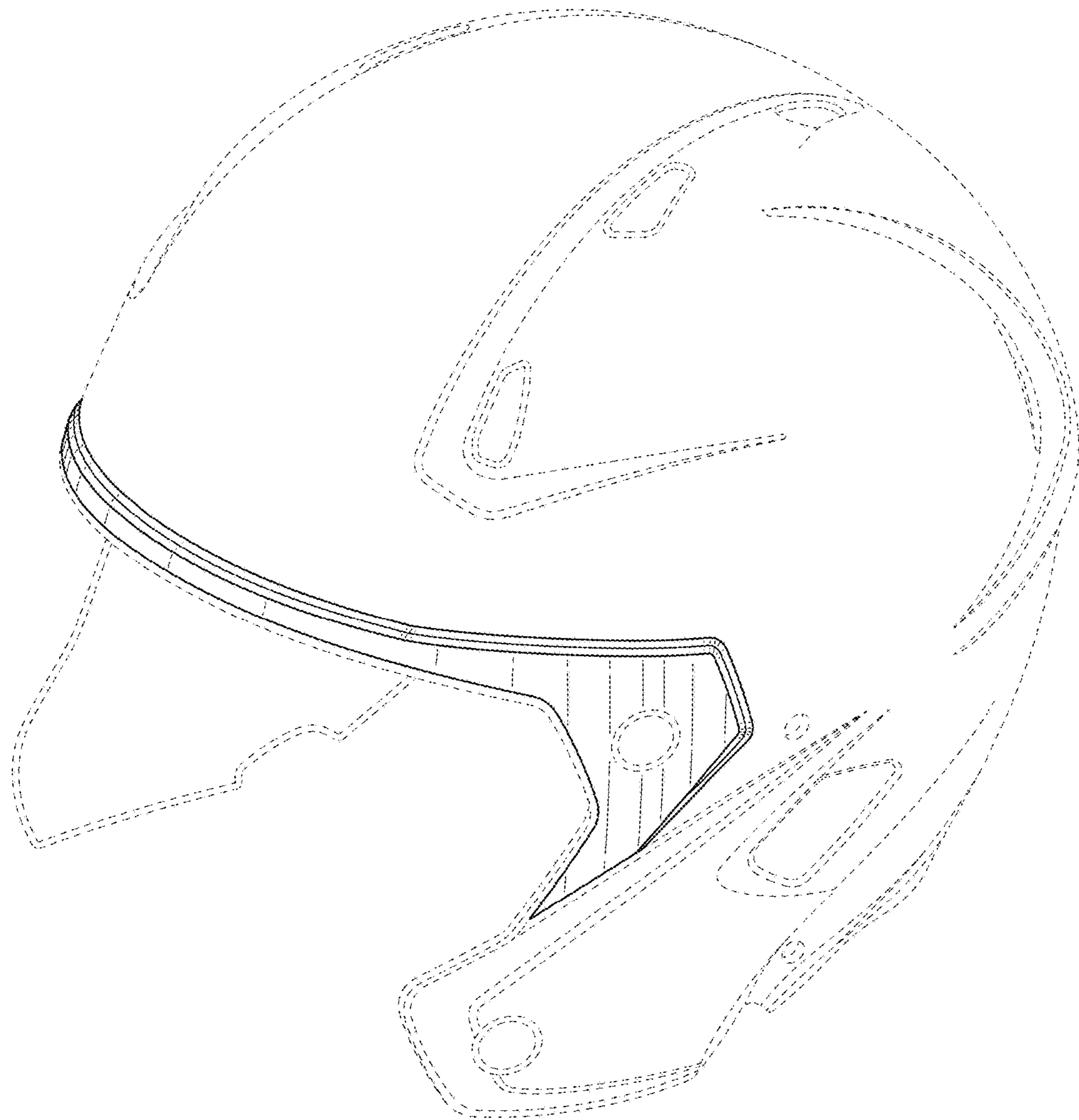
Final Written Decision, 35 U.S.C. § 318(a) and 37 C.F.R. § 42.73, *Kranos Corporation v. Riddell, Inc.*, Entered Feb. 21, 2018, Case No. IPR2016-01650, U.S. Pat. No. 8,938,818 B2 (47 pages).

Final Written Decision, 35 U.S.C. § 318(a) and 37 C.F.R. § 42.73, *Kranos Corporation v. Riddell, Inc.*, Entered Feb. 5, 2018, Case No. IPR2016-01646, U.S. Pat. No. 8,528,118 C1 (84 pages).

Kranos Corp. d/b/a Schutt Sports’ Expert Report of Dr. Posner (including Exhibits C-R); *Riddell Inc. v. Kranos Corp.*, N.D. IL, case 1:16-cv-04496 (686 pages).

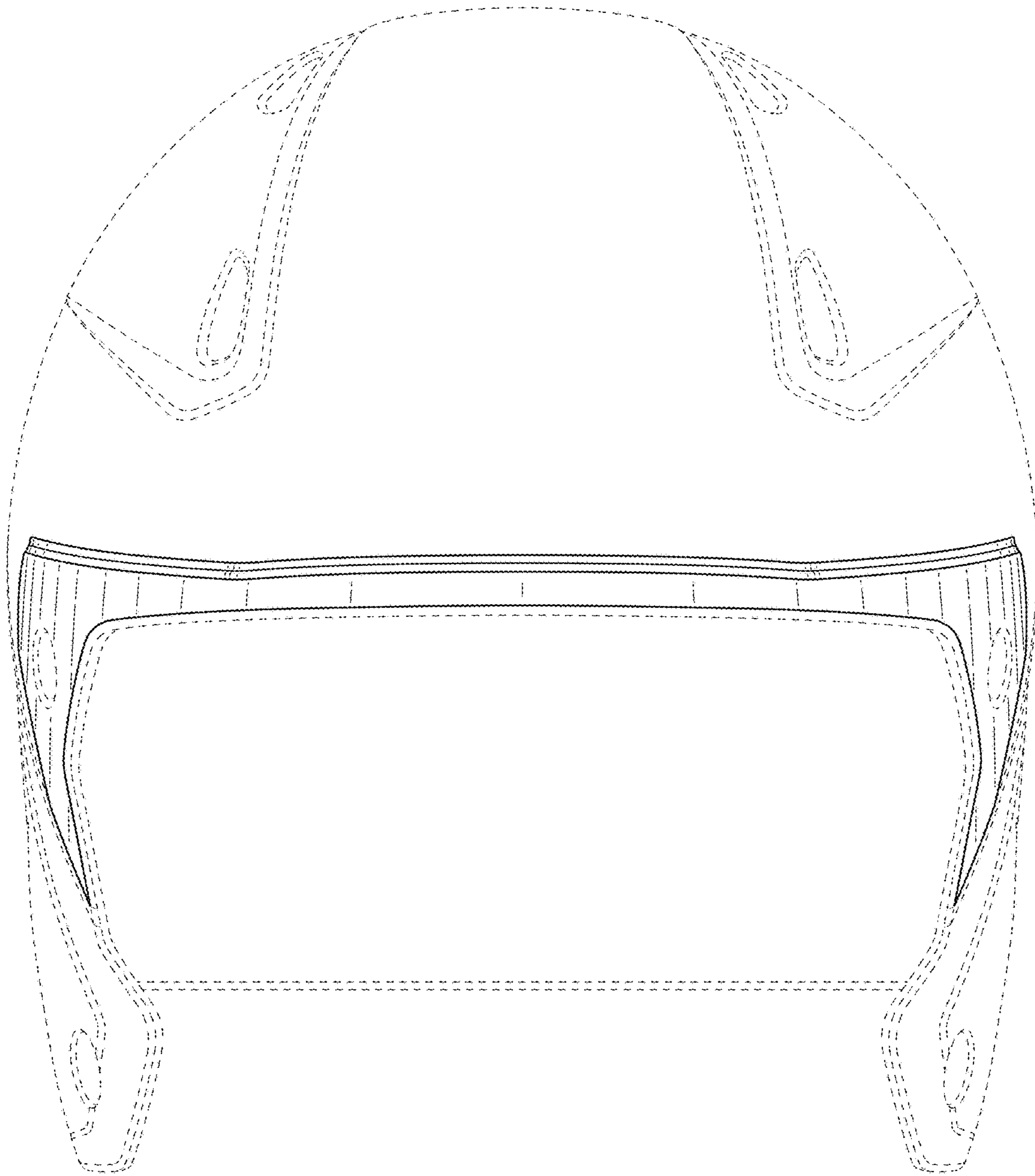
Riddell Inc.’s Responsive Expert Report of Mr. Shewchenko; *Riddell Inc. v. Kranos Corp.*, N.D. IL, case 1:16-cv-04496 (142 pages).

\* cited by examiner



**FIG. 1**





**FIG. 2**

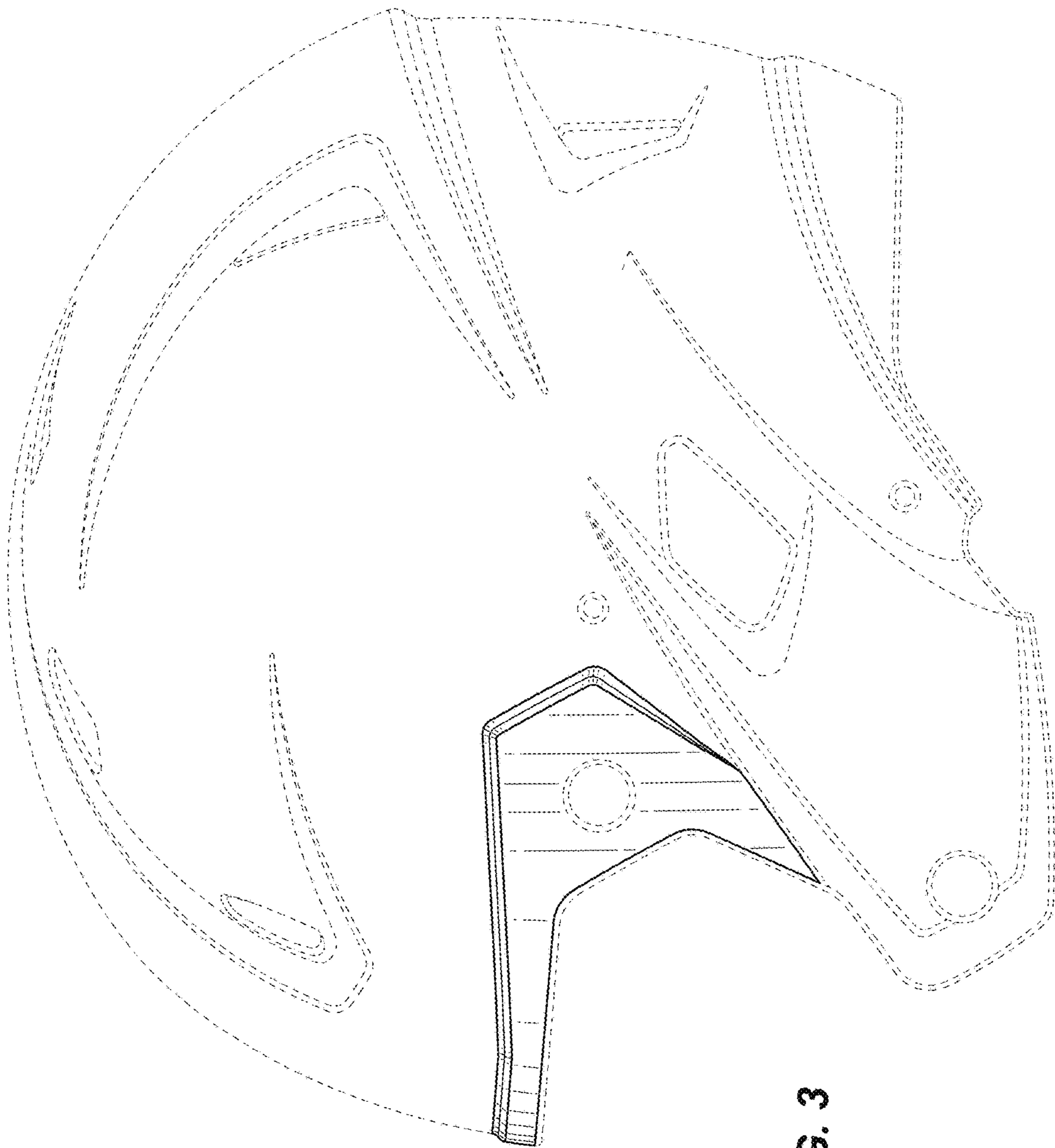
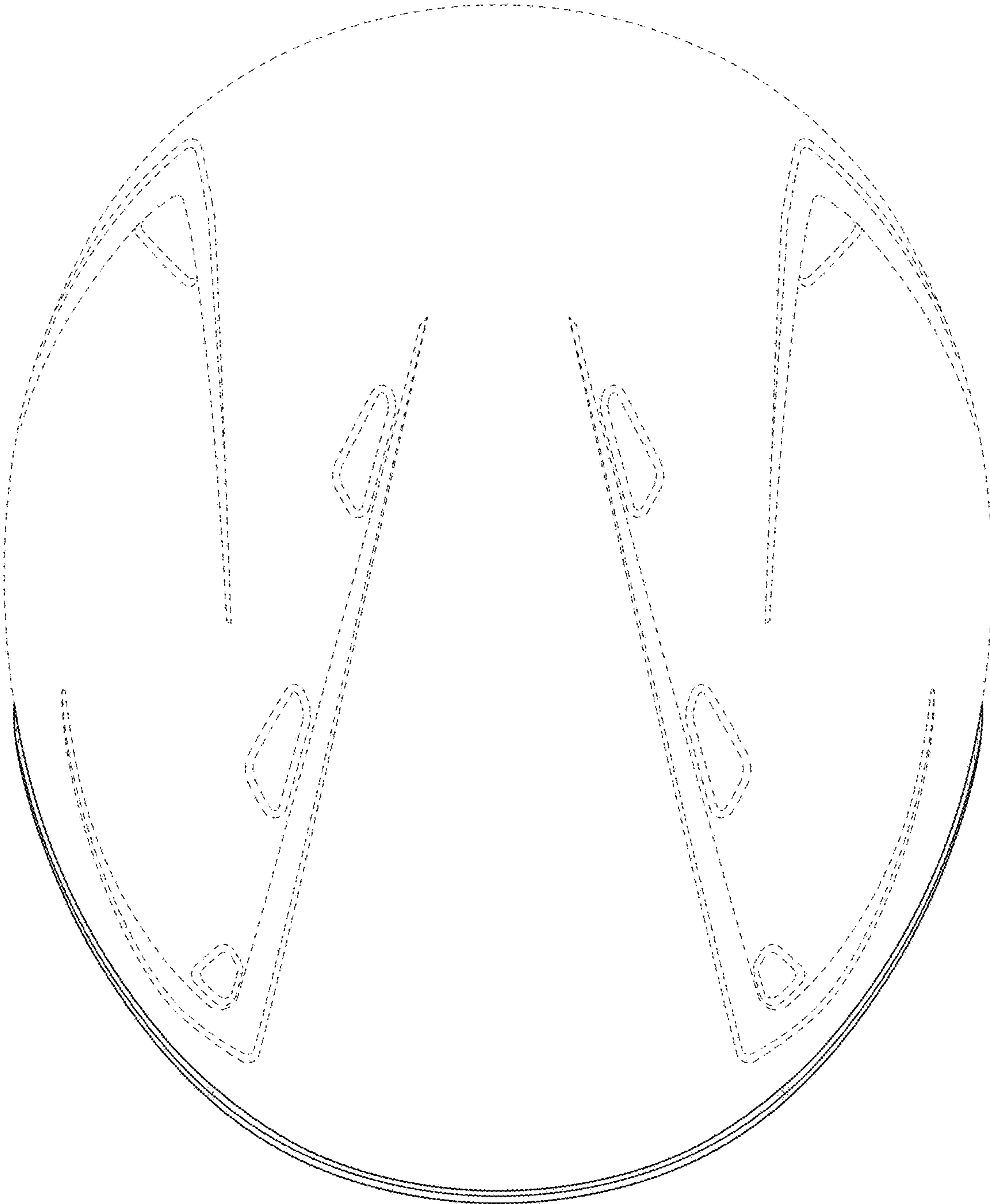
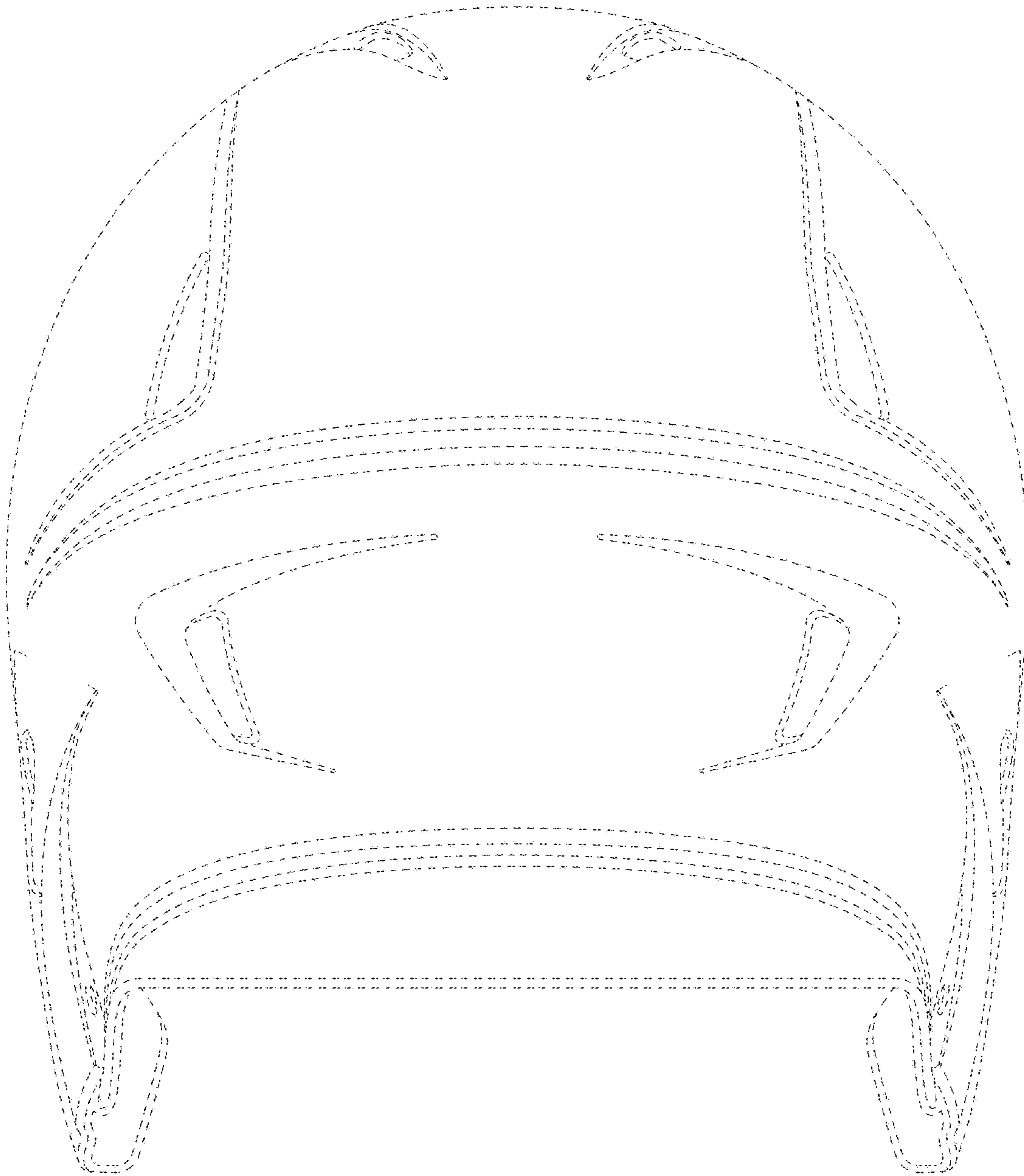


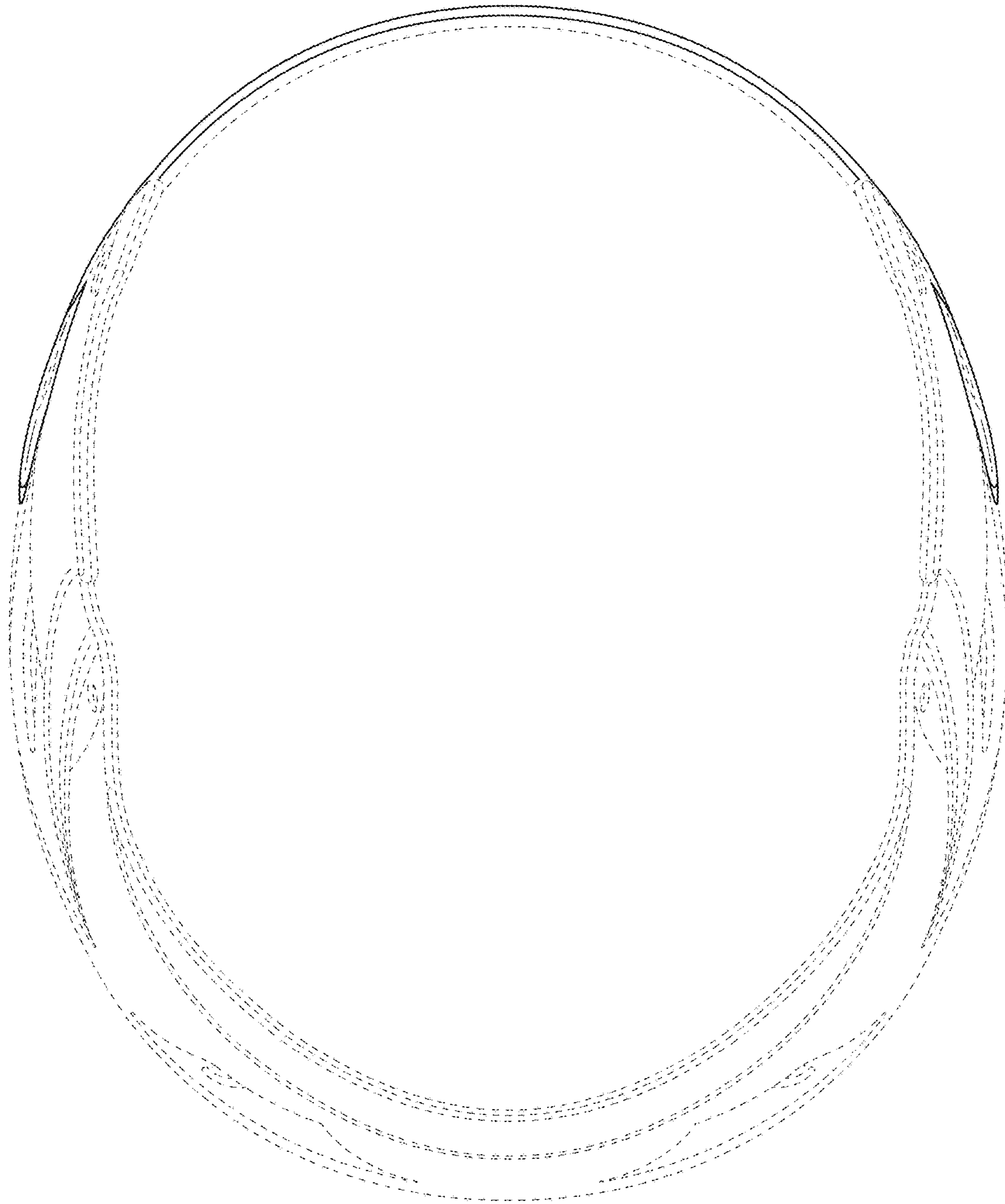
FIG. 3



**FIG. 4**



**FIG. 5**



**FIG. 6**