



US00D978277S

(12) **United States Design Patent** (10) **Patent No.:** **US D978,277 S**  
**Mahnke** (45) **Date of Patent:** **\*\* Feb. 14, 2023**

(54) **PROJECTILE**  
(71) Applicant: **G9 Holdings, LLC**, Lakewood, CO (US)  
(72) Inventor: **Joshua Mahnke**, Post Falls, ID (US)  
(73) Assignee: **G9 Holdings, LLC**, Lakewood, CO (US)

3,557,702 A 1/1971 Benson  
3,580,179 A 5/1971 Gawlick et al.  
3,901,158 A 8/1975 Ferb  
3,949,677 A 4/1976 Voss  
D244,448 S \* 5/1977 Bonine ..... D22/115  
4,301,733 A 11/1981 Blanco  
4,643,435 A \* 2/1987 Musacchia ..... F42B 6/08  
30/303

(Continued)

(\*\*) Term: **15 Years**  
(21) Appl. No.: **29/709,402**  
(22) Filed: **Oct. 14, 2019**

**FOREIGN PATENT DOCUMENTS**

CA 577406 6/1959  
DE 2641021 3/1978

(Continued)

**OTHER PUBLICATIONS**

Official Action for Canada Patent Application No. 2,982,305, dated Mar. 29, 2021 3 pages.

(Continued)

*Primary Examiner* — Michael A. Pratt  
(74) *Attorney, Agent, or Firm* — Sheridan Ross P.C.

**Related U.S. Application Data**  
(60) Division of application No. 29/590,952, filed on Jan. 13, 2017, now Pat. No. Des. 863,492, which is a continuation of application No. 14/701,519, filed on Apr. 30, 2015, now Pat. No. 9,709,368.  
(51) **LOC (14) Cl.** ..... **22-03**  
(52) **U.S. Cl.**  
USPC ..... **D22/116**  
(58) **Field of Classification Search**  
USPC ..... D22/107, 115–116  
CPC ..... F41A 9/83; F41A 9/82; F41A 9/01; F41A 9/09; F41A 9/86; F42B 30/02; F42B 5/02; F42B 5/26; F42B 12/34; F42B 8/04; F42B 10/22; F42B 8/14  
See application file for complete search history.

(57) **CLAIM**

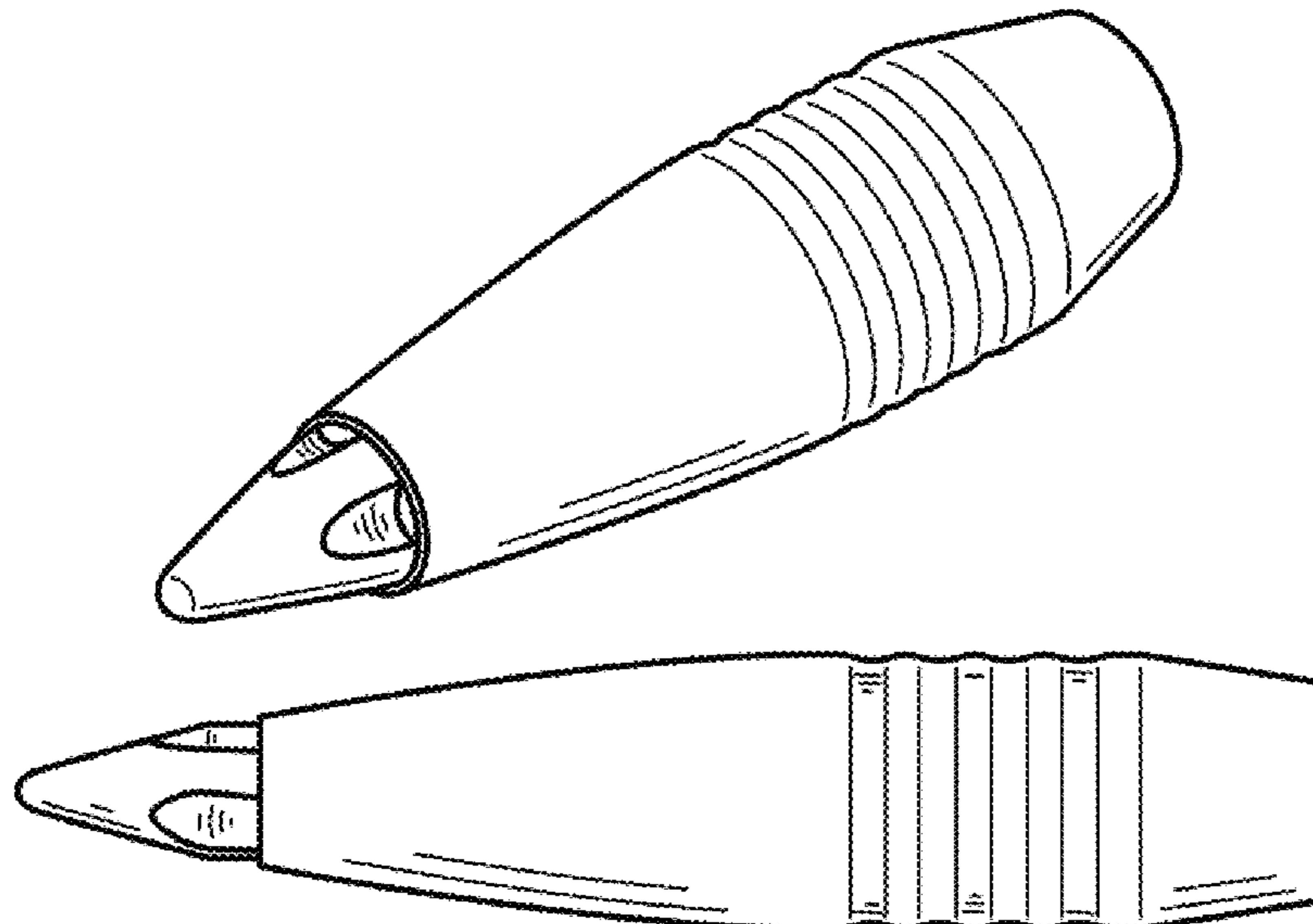
The ornamental design for a projectile, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of the projectile; FIG. 2 is a front elevation view thereof which is the same as the rear elevation view, top plan view, and bottom plan view; FIG. 3 is an elevation view of the projectile rotated between the front elevation view and the top plan view; FIG. 4 is a left elevation view thereof; and, FIG. 5 is a right elevation view thereof. The broken lines showing portions of a projectile are provided for the purpose of illustrating environment that forms no part of the claimed design.

(56) **References Cited**  
**U.S. PATENT DOCUMENTS**  
760,338 A 5/1904 Kwiatkowski  
1,169,704 A 1/1916 Wesner  
1,596,180 A 8/1926 Henderson  
2,342,006 A 2/1944 Moore  
2,612,108 A 9/1952 Schmidt  
2,941,469 A 6/1960 Barnhart

**1 Claim, 1 Drawing Sheet**



(56)

References Cited

U.S. PATENT DOCUMENTS

4,644,866 A 2/1987 Sullivan  
 4,700,630 A 10/1987 Sullivan  
 4,829,904 A 5/1989 Sullivan  
 4,829,906 A 5/1989 Kaswer  
 4,867,065 A 9/1989 Kaltmann et al.  
 H770 H 4/1990 Kline et al.  
 D310,553 S \* 9/1990 Kania ..... D22/115  
 4,958,572 A 9/1990 Martel  
 D314,416 S \* 2/1991 Rezmer ..... D22/115  
 5,020,438 A 6/1991 Brown  
 5,069,139 A 12/1991 Denis  
 5,094,464 A \* 3/1992 Musacchia, Sr. .... A01K 81/04  
 403/349  
 5,116,224 A \* 5/1992 Kelsey, Jr. .... F42B 10/22  
 102/439  
 5,133,261 A 7/1992 Kelsey, Jr.  
 5,198,616 A 3/1993 Anderson  
 D343,439 S \* 1/1994 Kuczewski ..... D22/116  
 D363,335 S \* 10/1995 Dixon ..... D22/116  
 5,493,975 A 2/1996 Franzini et al.  
 5,496,043 A 3/1996 Ester  
 5,641,937 A 6/1997 Carter  
 5,841,058 A 11/1998 Manis  
 5,907,121 A 5/1999 Fritze  
 5,932,836 A 8/1999 White  
 6,070,532 A \* 6/2000 Halverson ..... F42B 14/02  
 102/501  
 6,074,454 A 6/2000 Abrams et al.  
 D435,886 S 1/2001 Benini  
 6,182,574 B1 2/2001 Giannoni  
 6,263,798 B1 7/2001 Benini  
 D447,208 S 8/2001 Benini  
 6,306,053 B1 10/2001 Liechty, II  
 6,439,123 B1 8/2002 Dionne et al.  
 6,439,125 B1 8/2002 Carter  
 6,536,352 B1 3/2003 Nadkarni et al.  
 6,581,522 B1 6/2003 Julien et al.  
 6,772,695 B2 8/2004 Kellner  
 6,776,818 B1 8/2004 Nilsson  
 6,971,315 B2 12/2005 Knappworst et al.  
 7,204,191 B2 4/2007 Wiley et al.  
 7,207,276 B1 4/2007 Dindl  
 7,213,519 B2 5/2007 Wiley et al.  
 D563,100 S 3/2008 Epling et al.  
 D566,805 S 4/2008 Earl  
 7,380,502 B2 6/2008 Emary  
 D583,897 S 12/2008 Ward  
 7,484,459 B2 2/2009 Fichot et al.  
 D621,468 S 8/2010 Nilsson  
 D625,380 S 10/2010 Walter et al.  
 D626,619 S 11/2010 Gogol et al.  
 D632,357 S \* 2/2011 Dixon ..... D22/116  
 D652,472 S 1/2012 Klement  
 8,161,885 B1 4/2012 Emary  
 8,186,277 B1 5/2012 King  
 8,365,672 B2 2/2013 Calero Martinez et al.  
 8,393,273 B2 3/2013 Weeks et al.  
 D689,975 S 9/2013 Carlson et al.  
 D707,785 S 6/2014 Seecamp  
 8,763,535 B2 7/2014 Padgett  
 D710,962 S 8/2014 Pedersen  
 D713,919 S 9/2014 Rager  
 D717,909 S 11/2014 Thrift et al.  
 D722,126 S 2/2015 Bray  
 D723,653 S 3/2015 Peterson  
 D724,690 S 3/2015 Carson et al.  
 D726,281 S 4/2015 Powers, Jr.  
 9,003,974 B2 4/2015 Muskat et al.  
 D733,252 S 6/2015 Burczynski et al.  
 D733,834 S 7/2015 Burczynski et al.  
 D733,835 S 7/2015 Burczynski et al.  
 D733,836 S 7/2015 Burczynski et al.  
 D733,837 S 7/2015 Burczynski et al.  
 D734,419 S 7/2015 Burczynski et al.  
 D735,289 S 7/2015 Burczynski et al.

9,121,677 B2 9/2015 Emary  
 D743,500 S 11/2015 Pedersen  
 D747,781 S 1/2016 Alculumbre  
 D748,220 S 1/2016 Fricke  
 D750,723 S 3/2016 Rager  
 D751,166 S 3/2016 Seecamp  
 D751,167 S \* 3/2016 Chua ..... D22/116  
 D752,702 S 3/2016 Arnedo Vera et al.  
 D752,703 S 3/2016 Arnedo Vera et al.  
 D753,258 S 4/2016 Arnedo Vera et al.  
 D754,222 S 4/2016 Pederson et al.  
 D754,223 S 4/2016 Pederson et al.  
 9,316,468 B2 4/2016 Rall et al.  
 D759,189 S 6/2016 Pederson et al.  
 D764,624 S 8/2016 Masinelli  
 D768,798 S 10/2016 Loa  
 D768,802 S 10/2016 Bowers  
 D770,005 S \* 10/2016 Christiansen ..... D22/116  
 D774,159 S 12/2016 Holtmeyer et al.  
 D775,305 S \* 12/2016 Fiocchi ..... D22/116  
 D780,876 S \* 3/2017 Boatright ..... D22/116  
 D781,980 S 3/2017 Wallace  
 9,709,368 B2 7/2017 Mahnke  
 9,863,746 B2 1/2018 Peterson  
 D821,536 S \* 6/2018 Christiansen ..... D22/116  
 D863,492 S 10/2019 Mahnke  
 D868,199 S 11/2019 Mahnke  
 10,502,536 B2 12/2019 Mahnke  
 2002/0055404 A1 5/2002 Liechty, II  
 2005/0005807 A1 1/2005 Wiley et al.  
 2005/0241523 A1 11/2005 Schikora et al.  
 2006/0027128 A1 2/2006 Hober  
 2006/0030438 A1 2/2006 Hajek  
 2006/0096491 A1 5/2006 Fichot  
 2006/0124022 A1 6/2006 Eberhart et al.  
 2009/0308275 A1 12/2009 Nilsson  
 2010/0224093 A1 9/2010 Wilhelm et al.  
 2013/0263754 A1 10/2013 Neme  
 2014/0130699 A1 5/2014 Peterson et al.  
 2015/0075400 A1 3/2015 Lemke et al.  
 2015/0204639 A1 7/2015 Riley  
 2015/0268020 A1 9/2015 Emary  
 2015/0308800 A1 10/2015 Schnabel  
 2016/0047638 A1 2/2016 Golloher et al.  
 2016/0091289 A1 3/2016 Peterson et al.  
 2016/0097619 A1 4/2016 Emary  
 2016/0169645 A1 6/2016 Emary et al.  
 2016/0223307 A1 8/2016 Bray  
 2016/0231093 A1 8/2016 Lemke et al.  
 2017/0205215 A1 7/2017 Sloff et al.  
 2017/0219325 A1 8/2017 Smith  
 2017/0248396 A1 8/2017 Riess  
 2017/0314900 A1 11/2017 Mahnke  
 2017/0336186 A1 11/2017 Smith  
 2018/0135950 A1 5/2018 Agazim

FOREIGN PATENT DOCUMENTS

DE 10042719 3/2001  
 EP 0015574 9/1980  
 EP 0502221 9/1992  
 EP 2498046 9/2012  
 GB 451031 7/1936  
 WO WO 86/06827 11/1986  
 WO WO 99/37971 7/1999  
 WO WO 2008/048224 4/2008  
 WO WO 2013/086544 6/2013  
 WO WO 2013/096848 6/2013  
 WO WO 2015/048102 4/2015

OTHER PUBLICATIONS

Official Action for U.S. Appl. No. 16/707,820, dated Jul. 9, 2020 12 pages.  
 U.S. Appl. No. 15/407,102, filed Jan. 16, 2017, Mahnke.  
 U.S. Appl. No. 29/714,930, filed Nov. 26, 2019, Mahnke.  
 U.S. Appl. No. 16/707,820, filed Dec. 9, 2019, Mahnke.



(56)

**References Cited**

## OTHER PUBLICATIONS

“ELD® Match,” Hornady Manufacturing Company, 2016, retrieved from <http://www.hornady.com/store/BELD-Match-New>, 3 pages.

“ELD-X®,” Hornady Manufacturing Company, 2016, retrieved from <http://www.hornady.com/store/ELD-X-New>, 2 pages.

“Hornady® Black™,” Hornady Manufacturing Company, 2016, retrieved from <http://www.hornady.com/store/Black-new>, 3 pages.

“Inceptor ARX Product Sheet,” PolyCase Ammunition, Jan. 2015, 1 page.

“Inceptor Preferred Defense,” Polycase Ammunition, retrieved from <http://www.polycaseammo.com/project/inceptor-arx>, retrieved on Nov. 2016, 2 pages.

“Inceptor Preferred Hunting®,” Polycase Ammunition, retrieved from <http://www.polycaseammo.com/project/inceptor-preferred-hunting>, retrieved on Nov. 2016, 2 pages.

“Match™,” Hornady Manufacturing Company, 2016, retrieved from <http://www.hornady.com/store/Match-newammo>, 3 pages.

“Polycase Ammo Shows Off New Ammo at Shot Show 2014,” Matt Alpert, 2014, retrieved from <https://www.youtube.com/watch?v=Y9Pp9gRNqal>, retrieved on May 2, 2016, 1 page (screen shot of YouTube video web page).

“PolyCase ARX + RNP Product Sheet,” PolyCase Ammunition, Jan. 2015, 1 page.

“Ruger® Ammunition,” Sturm, Ruger & Co., Inc., retrieved from <http://www.ruger.com/micros/ammo/index.html?r=y>, retrieved on Nov. 2016, 3 pages.

ES P201331387 (priority document for WO 2015/048102), filed Sep. 24, 2013, 21 pages, English translation unavailable.

Horman, “Tested: The Polycase ARX Bullet,” American Rifleman, 2015, 6 pages.

International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US15/28661, dated Jan. 7, 2016, 11 pages.

International Preliminary Report on Patentability for International (PCT) Patent Application No. PCT/US15/28661, dated Oct. 12, 2016, 9 pages.

Official Action for Australia Patent Application No. 2015288295, dated Mar. 6, 2019 6 pages.

Extended European Search Report for European Patent Application No. 15819768.1, dated Dec. 1, 2017, 11 pages.

Official Action for Israel Patent Application No. 248588, dated Feb. 7, 2018 7 pages.

Notice of Allowance for Israel Patent Application No. 248588, dated Jun. 16, 2019 3 pages.

Official Action for U.S. Appl. No. 14/701,519, dated Apr. 5, 2016, 7 pages, Restriction Requirement.

Official Action for U.S. Appl. No. 14/701,519, dated Aug. 26, 2016, 9 pages.

Notice of Allowance for U.S. Appl. No. 14/701,519, dated Mar. 24, 2017, 8 pages.

Restriction Requirement for U.S. Appl. No. 15/406,781, dated Feb. 28, 2018, 7 pages.

Official Action for U.S. Appl. No. 15/406,781, dated Sep. 5, 2018 6 pages Restriction Requirement.

Official Action for U.S. Appl. No. 15/406,781, dated Feb. 1, 2019 7 pages.

Notice of Allowance for U.S. Appl. No. 15/406,781, dated Jul. 25, 2019 8 pages.

Official Action for U.S. Appl. No. 29/612,522, dated Mar. 8, 2019 6 pages Restriction Requirement.

Notice of Allowance for U.S. Appl. No. 29/612,522, dated Jul. 11, 2019 6 pages.

Official Action for U.S. Appl. No. 29/590,952, dated Jul. 12, 2018 7 pages Restriction Requirement.

Official Action for U.S. Appl. No. 29/590,952, dated Dec. 14, 2018 7 pages.

Notice of Allowance for U.S. Appl. No. 29/590,952, dated May 22, 2019 5 pages.

Official Action for U.S. Appl. No. 15/651,997, dated May 14, 2018 7 pages Restriction Requirement.

Official Action for U.S. Appl. No. 15/651,997, dated Feb. 14, 2019 11 pages.

Notice of Allowance for U.S. Appl. No. 15/651,997, dated Jul. 29, 2019 8 pages.

Notice of Acceptance for Australia Patent Application No. 2015288295, dated Sep. 12, 2019 4 pages.

Official Action for European Patent Application No. 19182441.6, dated Oct. 21, 2019 5 pages.

U.S. Appl. No. 16/806,860, filed Mar. 2, 2020, Mahnke.

“Helosr High Expansion Lawman Ordnance Monolithic Hollow Point,” National Police Ammunition, 2018, 5 pages.

Extended Search Report for European Patent Application No. 19182441.6, dated Mar. 2, 2020 10 pages.

Official Action with English Translation for Israel Patent Application No. 269160, dated Nov. 28, 2019 6 pages.

Notice of Acceptance for Australia Patent Application No. 2019283920, dated Jan. 12, 2021 4 pages.

Notice of Allowance for U.S. Appl. No. 16/707,820, dated Feb. 19, 2021 9 pages.

Official Action for U.S. Appl. No. 16/806,860, dated Nov. 23, 2020 11 pages.

Official Action for U.S. Appl. No. 16/806,860, dated Mar. 24, 2021 9 pages.

\* cited by examiner

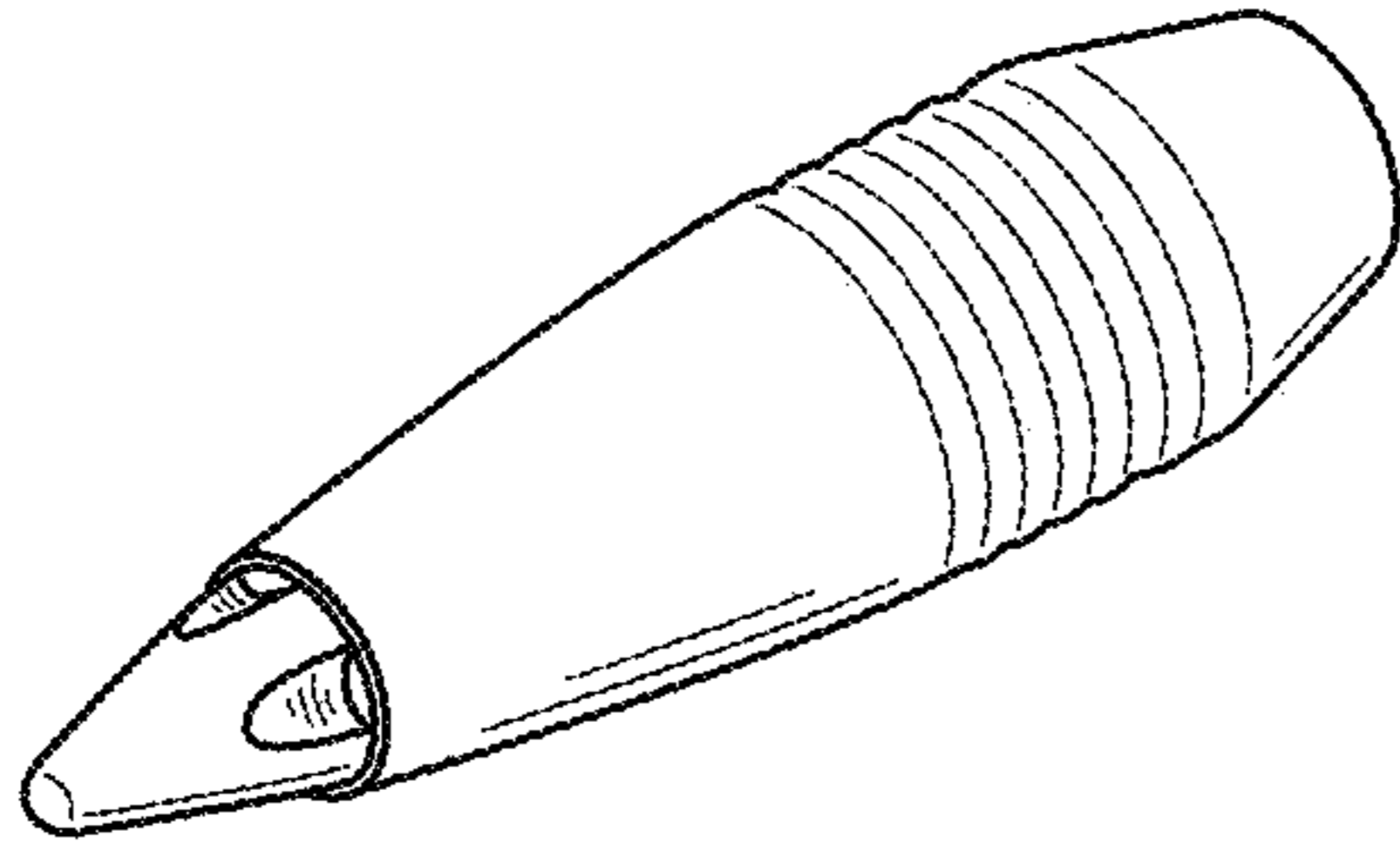


FIG.1

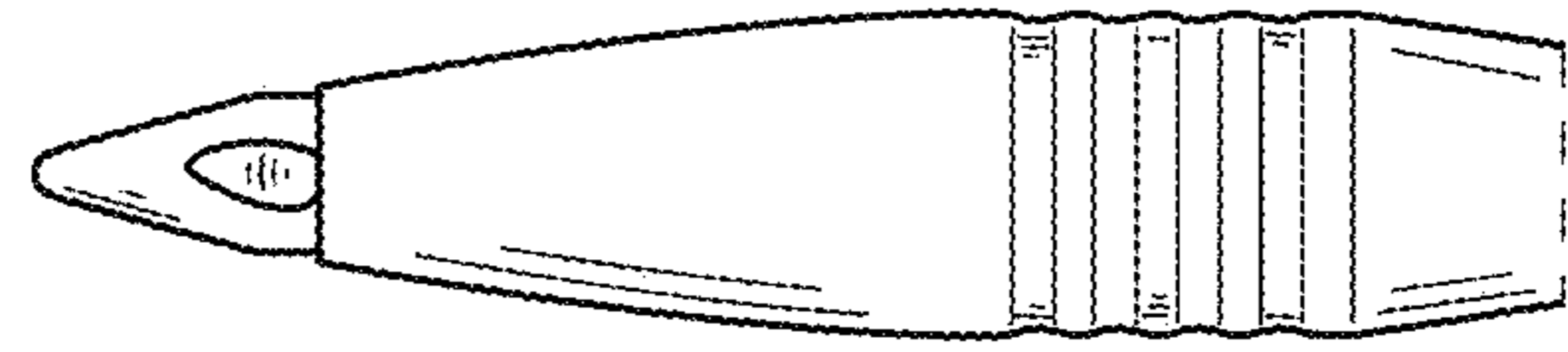


FIG.2

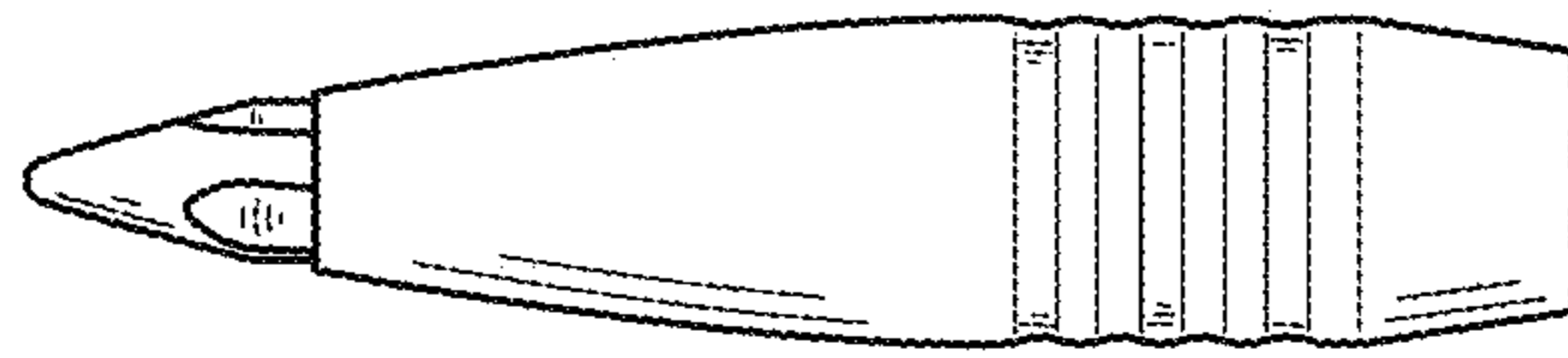


FIG.3

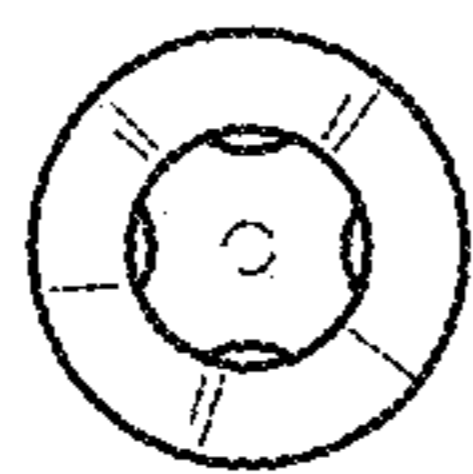


FIG.4

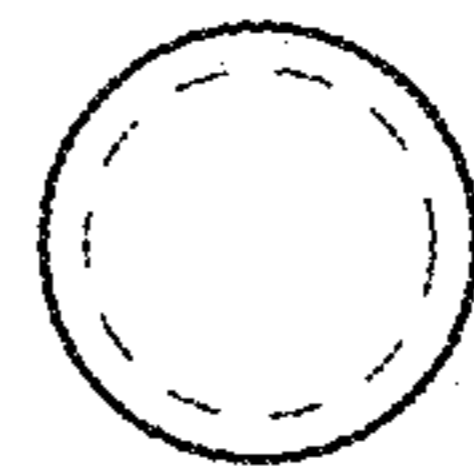


FIG.5