



US00D811186S

(12) **United States Design Patent**
Hyma

(10) **Patent No.:** **US D811,186 S**

(45) **Date of Patent:** **** Feb. 27, 2018**

- (54) **PLIERS WITH CONTROL KEY**
- (71) Applicant: **Milwaukee Electric Tool Corporation**,
Brookfield, WI (US)
- (72) Inventor: **Steven W. Hyma**, Milwaukee, WI (US)
- (73) Assignee: **MILWAUKEE ELECTRIC TOOL CORPORATION**, Brookfield, WI (US)

3,859,874 A	1/1975	Joeckel
3,894,451 A	7/1975	Putsch
D260,476 S	9/1981	Knaus
4,307,635 A	12/1981	Genova
4,519,278 A	5/1985	Heldt
4,850,254 A	7/1989	Burney
4,926,722 A	5/1990	Sorensen et al.

(Continued)

FOREIGN PATENT DOCUMENTS

- (**) Term: **15 Years**
- (21) Appl. No.: **29/582,964**
- (22) Filed: **Nov. 1, 2016**

EP	0216717	4/1987
EP	1237681	9/2002

(Continued)

OTHER PUBLICATIONS

Photographs of pliers taken on Sep. 19, 2012 (3 pages).

Primary Examiner — Deanna L Pratt
(74) *Attorney, Agent, or Firm* — Michael Best & Friedrich LLP

Related U.S. Application Data

- (63) Continuation of application No. 29/498,236, filed on Aug. 1, 2014, now Pat. No. Des. 771,456.
 - (51) **LOC (11) Cl.** **08-05**
 - (52) **U.S. Cl.**
 - USPC **D8/51**
 - (58) **Field of Classification Search**
 - USPC D8/4, 5, 51-60, 105, 107
 - CPC .. B25B 7/123; B25B 7/10; B25B 7/12; B25B 5/102; B25B 5/068
- See application file for complete search history.

(57) **CLAIM**

I claim the ornamental design for a pliers with control key, as shown and described.

DESCRIPTION

FIG. 1 is a top perspective view of a control key for a pliers showing our new design;
 FIG. 2 is a bottom perspective view thereof;
 FIG. 3 is a right side view thereof, wherein the left side view is a mirror image thereof;
 FIG. 4 is a top view thereof;
 FIG. 5 is a bottom view thereof; and,
 FIG. 6 is a rear view thereof.

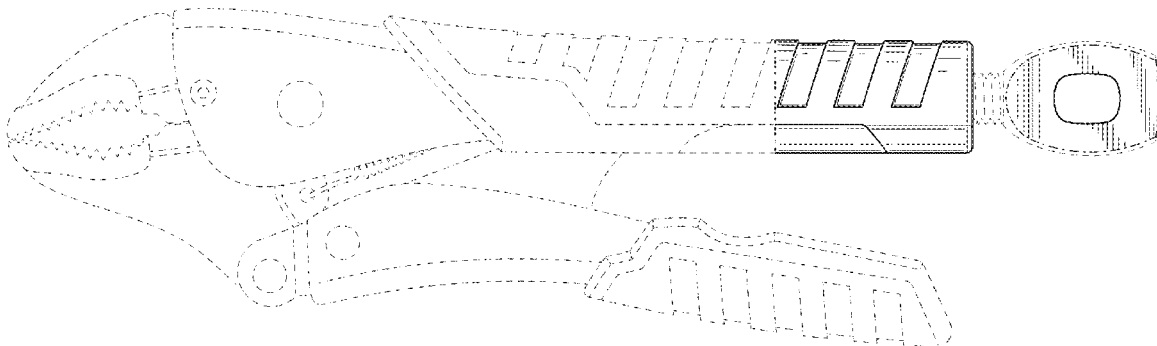
The evenly-spaced broken lines illustrate portions of the pliers with control key that form no part of the claimed design. The dash-dot broken lines illustrate the boundary of the claimed design and form no part thereof.

References Cited

U.S. PATENT DOCUMENTS

- 1,156,764 A 10/1915 Druck
- 1,489,458 A 4/1924 Petersen
- 2,156,529 A 5/1939 Dat
- 2,280,005 A 4/1942 Petersen
- 2,388,580 A 11/1945 Snell
- 2,514,130 A 7/1950 Jones
- 2,519,630 A 8/1950 Boyer
- RE24,465 E 4/1958 Waterbury
- 2,854,877 A 10/1958 Hunter
- 2,857,795 A 10/1958 Workman
- 3,698,419 A 10/1972 Tura
- 3,710,658 A 1/1973 Wilson

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,005,449 A 4/1991 Sorensen et al.
 5,009,134 A 4/1991 Sorensen et al.
 D320,919 S 10/1991 Sorensen
 5,056,385 A 10/1991 Petersen
 5,113,727 A 5/1992 Foster
 D328,846 S 8/1992 Sorensen et al.
 D331,180 S 11/1992 Sorensen
 D333,602 S 3/1993 Gatzemeyer et al.
 5,197,359 A 3/1993 Mills
 D342,877 S 1/1994 Adamic
 5,347,670 A 9/1994 Duguet et al.
 5,351,585 A 10/1994 Leseberg et al.
 D357,165 S 4/1995 Sorensen et al.
 5,456,144 A 10/1995 Dahl et al.
 5,460,065 A 10/1995 Balmer
 D366,818 S 2/1996 McGarry
 5,609,080 A 3/1997 Flavigny
 5,640,876 A 6/1997 Erwin
 5,775,680 A 7/1998 Sorensen et al.
 D398,208 S 9/1998 Anderson
 5,813,297 A 9/1998 Zepkowski
 D399,398 S 10/1998 Neyton
 5,988,616 A 11/1999 Fuller et al.
 6,019,352 A 2/2000 Mayer
 D426,440 S 6/2000 Torres
 6,175,998 B1 1/2001 Leo
 6,212,979 B1 4/2001 Wang
 6,227,080 B1 5/2001 Grayo et al.
 6,270,134 B1 8/2001 Lin
 6,279,433 B1 8/2001 Chervenak
 6,282,996 B1 9/2001 Berg et al.
 6,302,386 B1 10/2001 Fuller et al.
 6,311,588 B1 11/2001 St John et al.
 6,341,545 B1 1/2002 Gomas
 6,347,791 B1 2/2002 Chervenak
 6,378,404 B1 4/2002 Bally et al.
 6,367,787 B1 7/2002 Poole et al.
 6,412,767 B1 7/2002 Beckmann et al.
 D462,247 S 9/2002 Hackman
 6,450,070 B1 9/2002 Winkler et al.
 D472,438 S 4/2003 Peperkorn et al.
 6,591,719 B1 7/2003 Poole et al.
 6,601,838 B1 8/2003 Gilley
 6,626,070 B2 9/2003 Peperkorn et al.
 6,776,072 B2 8/2004 Poole et al.
 6,857,342 B2 2/2005 Wang
 6,941,844 B2 9/2005 Hile
 6,966,243 B1 11/2005 Liao
 6,993,999 B2 2/2006 Wong
 7,086,312 B1 8/2006 Tortolani
 7,104,166 B1 9/2006 Wong
 7,134,365 B2 11/2006 Hile
 7,146,887 B2 12/2006 Hunter
 D535,172 S 1/2007 Engvall et al.
 D535,173 S 1/2007 Engvall et al.
 D535,542 S 1/2007 Engvall et al.
 7,249,542 B2 7/2007 McNatt
 7,363,669 B2 4/2008 Berg et al.
 D571,631 S 6/2008 Gandy, III
 7,389,714 B1 6/2008 Heagerty
 7,434,498 B2 10/2008 Johnson
 7,454,999 B2 11/2008 Wu
 7,472,632 B2 1/2009 Engvall et al.

7,509,895 B2 3/2009 Engvall et al.
 D599,637 S 9/2009 Valencia
 D605,917 S 12/2009 Sands
 7,637,753 B2 12/2009 Wong et al.
 7,641,183 B2 1/2010 Fuller et al.
 7,651,078 B2 1/2010 Geier et al.
 7,669,505 B2 3/2010 Campbell et al.
 7,699,297 B2 4/2010 Cicenias et al.
 7,721,630 B2 5/2010 Hunter
 7,726,217 B2 6/2010 Engvall et al.
 7,730,810 B1 6/2010 Janson
 7,735,813 B2 6/2010 Geier et al.
 7,815,175 B2 10/2010 Cicenias et al.
 7,861,622 B2 1/2011 Chervenak et al.
 7,896,322 B2 3/2011 Geier et al.
 D635,427 S 4/2011 Chervenak et al.
 D635,428 S 4/2011 Lucus
 7,942,392 B2 5/2011 Geier et al.
 7,954,794 B2 6/2011 Fuller et al.
 7,984,895 B2 6/2011 Strauss et al.
 8,024,998 B1 9/2011 Valencia
 8,056,451 B2 11/2011 Chervenak et al.
 D651,060 S 12/2011 Chervenak et al.
 8,074,340 B2 12/2011 Cicenias et al.
 D653,092 S 1/2012 Carra
 8,122,792 B2 2/2012 Engvall et al.
 8,176,814 B1 5/2012 Bernstein et al.
 8,225,700 B2 7/2012 Hile
 8,240,647 B2 8/2012 Geier et al.
 8,266,990 B1 9/2012 Janson
 8,270,134 B2 9/2012 Rogoll et al.
 8,302,512 B2 11/2012 Shih
 8,429,948 B1 4/2013 Warren
 D682,067 S * 5/2013 Tillet D8/107
 8,479,618 B2 7/2013 Hsiao
 D718,107 S 11/2014 Bascom
 D724,926 S * 3/2015 Hernandez, Jr. D8/105
 D771,456 S * 11/2016 Hyma D8/51
 9,492,911 B2 * 11/2016 Hyma B25B 7/123
 2002/0157507 A1 10/2002 Chou
 2003/0196526 A1 10/2003 Wang
 2007/0131068 A1 6/2007 McNatt
 2007/0180957 A1 8/2007 Johnson
 2008/0173143 A1 7/2008 Wu
 2008/0216615 A1 9/2008 Wu
 2010/0084798 A1 4/2010 Geier et al.
 2010/0018362 A1 9/2010 Chervenak et al.
 2010/0218648 A1 9/2010 Chervenak et al.
 2011/0067184 A1 3/2011 Robert
 2011/0113935 A1 5/2011 Hall
 2011/0203421 A1 8/2011 Chervenak et al.
 2012/0096998 A1 4/2012 Shih
 2013/0014618 A1 1/2013 Wu
 2013/0047794 A1 2/2013 Huang
 2013/0192429 A1 8/2013 Cripps
 2013/0228046 A1 9/2013 Wu
 2016/0207175 A1 7/2016 Hyma et al.
 2017/0087695 A1 * 3/2017 Hyma B25B 7/123

FOREIGN PATENT DOCUMENTS

TW 316129 8/2007
 TW M387738 9/2010
 TW D145453 2/2012
 WO 9518699 7/1995

* cited by examiner

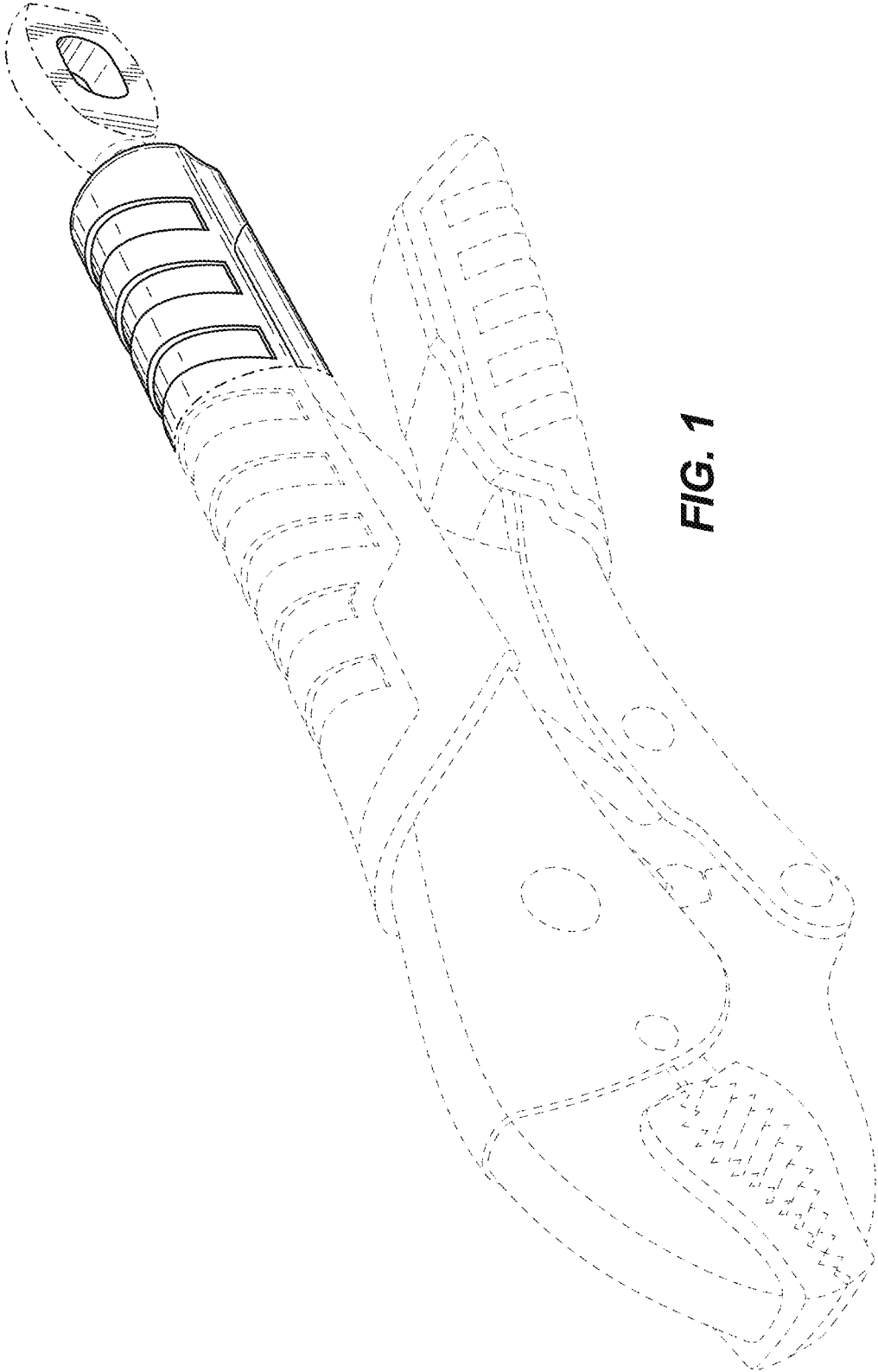


FIG. 1

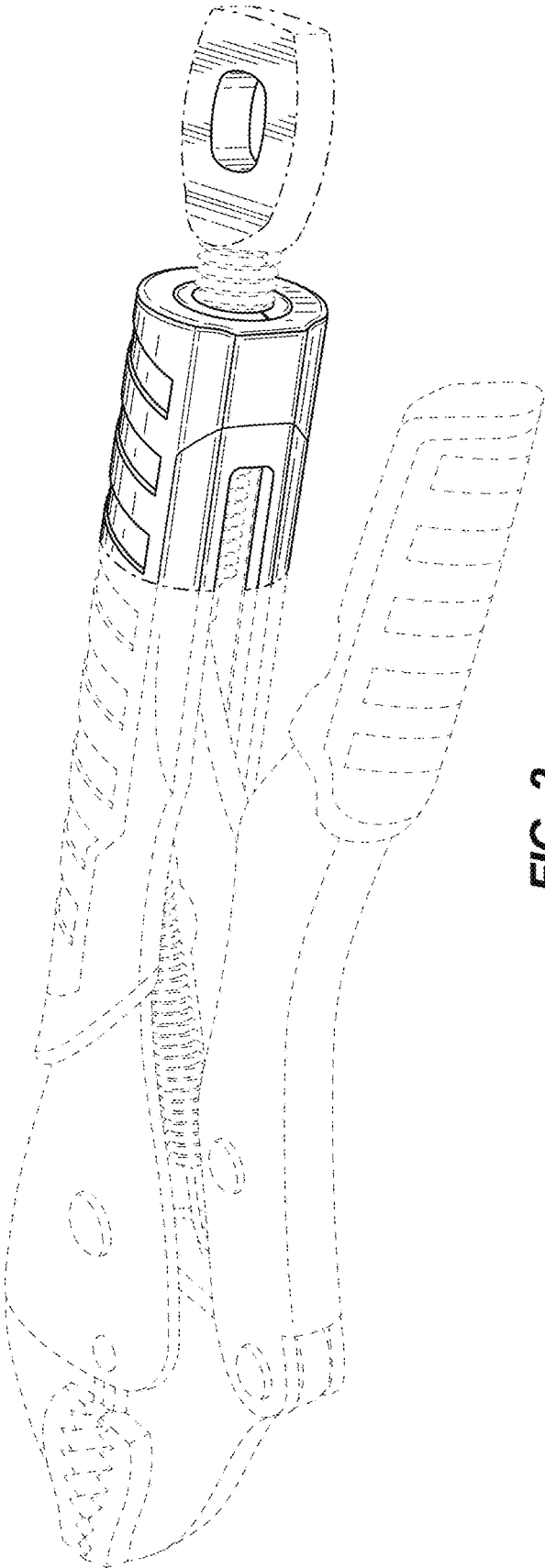


FIG. 2

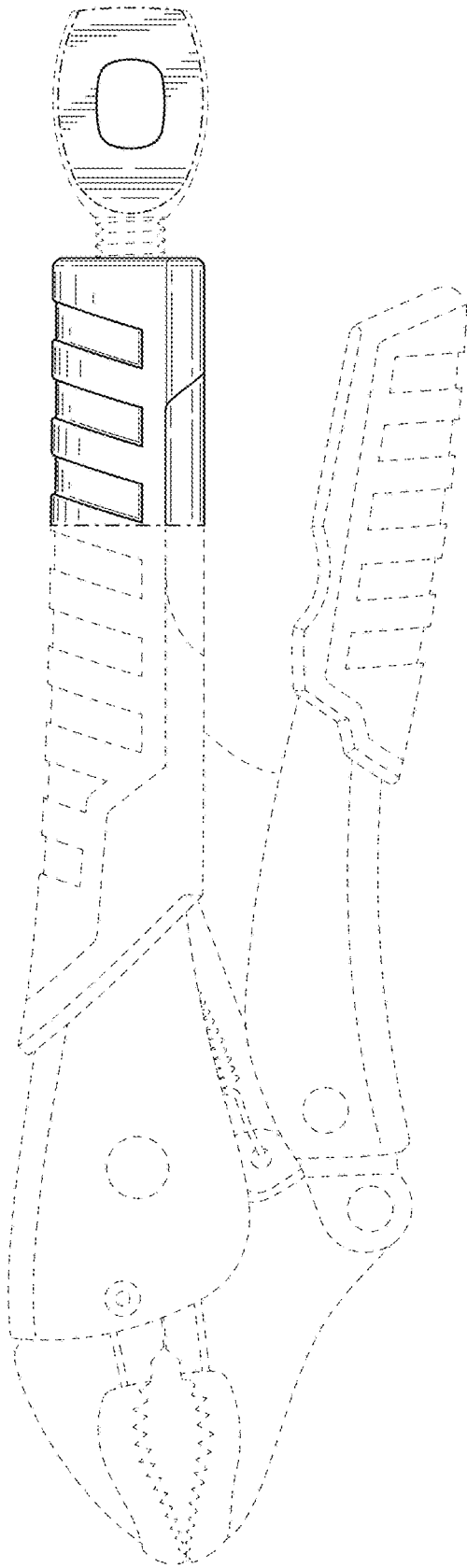


FIG. 3

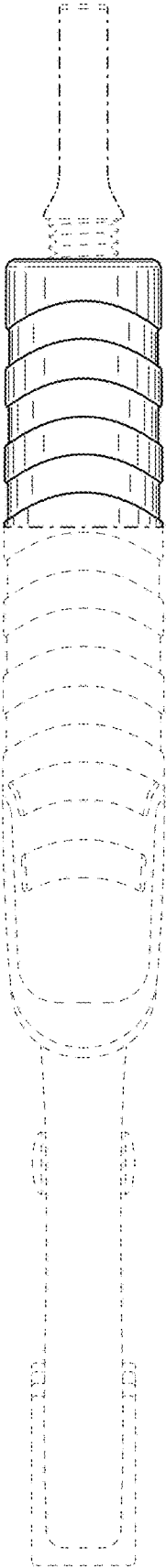


FIG. 4



FIG. 5

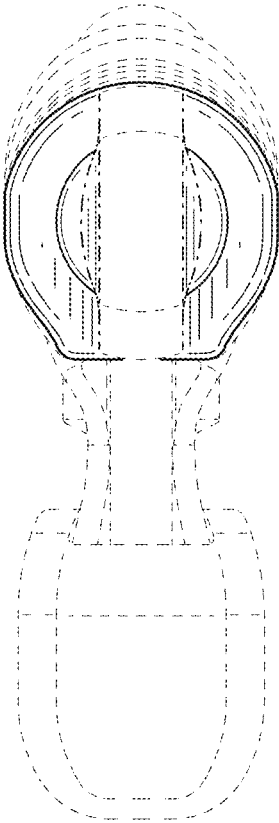


FIG. 6