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

(10) **Patent No.:** **US D1,010,776 S**

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(54) **FEMALE QUICK-CONNECT CONNECTOR**

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(73) Assignee: **JOI Holding LLC**, Boaz, KY (US)

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

(21) Appl. No.: **29/810,118**

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Related U.S. Application Data

(60) Continuation-in-part of application No. 16/838,759, filed on Apr. 2, 2020, now abandoned, which is a division of application No. 16/691,500, filed on Nov. 21, 2019, now abandoned, which is a continuation-in-part of application No. 16/503,441, filed on Jul. 3, 2019, now abandoned, which is a continuation-in-part of application No. 15/718,009, filed on Sep. 28, 2017, now abandoned.

(51) **LOC (14) Cl.** **23-01**

(52) **U.S. Cl.**

USPC **D23/262**

(58) **Field of Classification Search**

USPC D23/202, 206–208, 209, 213, 223, D23/259–260, 262–266, 269, 301, 303; D8/352, 382, 386–388, 393, 396–399
CPC A47H 1/00; A47H 1/16; F16L 2201/10; F16L 23/003; F16L 21/022; F16L 23/18; F16L 23/036

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,359,648 A 10/1944 Jones
2,628,850 A 2/1953 Summerville
2,771,308 A 11/1956 Vitcha et al.

2,883,813 A 4/1959 Shannon
2,959,027 A 11/1960 Ewing
3,039,794 A 6/1962 Cenzo
3,208,232 A 9/1965 Madison et al.
D206,236 S * 11/1966 Seckel D23/266
3,337,244 A 8/1967 Appleberry

(Continued)

FOREIGN PATENT DOCUMENTS

BR PI1320579 A2 3/2016
CN 111780227 A 10/2020

(Continued)

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(57) **CLAIM**

What is claimed is the ornamental design for a female quick-connect connector, as shown and described.

DESCRIPTION

FIG. 1 is a top front right perspective view showing the female quick-connect connector of Applicants' invention.

FIG. 2 is a top rear left perspective view of the female quick-connect connector of FIG. 1.

FIG. 3 is a top plan view of the female quick-connect connector of FIG. 1, the bottom plan view being an identical mirror image thereto.

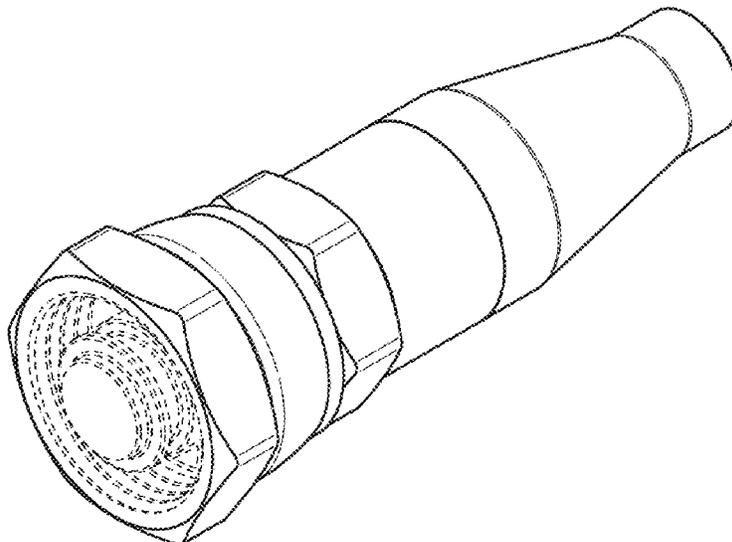
FIG. 4 is a front elevation view of the female quick-connect connector of FIG. 1, the rear elevation view being an identical mirror image thereto.

FIG. 5 is a left side elevation view of the female quick-connect connector of FIG. 1; and,

FIG. 6 is a right side elevation view of the female quick-connect connector of FIG. 1.

The broken lines in the figures are used to represent subject matter that forms no part of the claimed design.

1 Claim, 1 Drawing Sheet



(56)

References Cited

U.S. PATENT DOCUMENTS

3,611,743 A 10/1971 Manganaro
 3,802,216 A 4/1974 Brandimarte
 D235,343 S * 6/1975 Otto D23/262
 4,321,797 A 3/1982 Yaeger et al.
 4,378,923 A 4/1983 Takei
 4,540,021 A 9/1985 Rogers
 4,753,268 A 6/1988 Palau
 4,852,611 A 8/1989 Knerr et al.
 5,123,446 A 6/1992 Haunhorst et al.
 5,191,770 A 3/1993 Kim
 5,215,122 A 6/1993 Rogers et al.
 5,220,810 A 6/1993 Keltner
 5,323,808 A 6/1994 Shimizu
 D352,544 S * 11/1994 Golan F16L 3/1226
 D23/209
 5,363,671 A 11/1994 Forsythe et al.
 5,445,290 A 8/1995 Forsythe et al.
 5,464,042 A 11/1995 Haunhorst
 D372,857 S * 8/1996 Hirai D8/387
 5,896,922 A 4/1999 Chrysler et al.
 5,934,364 A 8/1999 Chrysler et al.
 5,954,127 A 9/1999 Chrysler et al.
 6,158,229 A 12/2000 Aizawa
 6,189,328 B1 2/2001 Mochizuki
 D450,814 S * 11/2001 Aldred D15/140
 D451,584 S * 12/2001 Patteson D23/262
 D455,819 S * 4/2002 Hoenig D23/259
 6,662,587 B2 12/2003 Rembold et al.
 D493,512 S * 7/2004 Dole D23/262
 6,848,670 B2 2/2005 Haunhorst et al.
 7,007,493 B2 3/2006 Kadle et al.
 D546,665 S * 7/2007 Medlin D8/382
 D712,360 S * 9/2014 Su D13/147
 D749,519 S * 2/2016 Su D13/147
 D805,164 S * 12/2017 Norman D24/112
 10,132,541 B2 11/2018 Kawabe et al.
 10,156,369 B2 12/2018 Booten et al.

D838,350 S * 1/2019 Downs F16L 37/0841
 D23/262
 10,760,795 B2 9/2020 Booten et al.
 D912,202 S * 3/2021 Takezawa F16L 37/0841
 D23/213
 11,125,479 B1 9/2021 Ingram
 11,703,172 B2 * 7/2023 Sanzone F16L 37/107
 454/69
 D994,091 S * 8/2023 Arment D23/262
 D995,723 S * 8/2023 Liao D23/262
 D996,581 S * 8/2023 Li D23/262
 D998,108 S * 9/2023 Wood D23/262
 D998,763 S * 9/2023 Lin D23/262
 2003/0015679 A1 1/2003 Haunhorst et al.
 2003/0106715 A1 6/2003 Clemmons
 2003/0192335 A1 10/2003 Rembold et al.
 2004/0066034 A1 * 4/2004 Takayanagi F16L 3/1226
 285/319
 2012/0119032 A1 5/2012 Benassi et al.
 2012/0318005 A1 12/2012 Lingrey et al.
 2015/0115597 A1 4/2015 Lorraine
 2018/0080668 A1 3/2018 Booten et al.
 2018/0087783 A1 3/2018 Ingram
 2019/0193093 A1 6/2019 Matlack et al.
 2019/0383515 A1 12/2019 McGraw et al.
 2020/0370764 A1 11/2020 Strickland
 2021/0088251 A1 3/2021 Martinez Galvan et al.
 2023/0167927 A1 * 6/2023 Belen F16L 25/14
 285/93

FOREIGN PATENT DOCUMENTS

EP 1041347 A2 10/2000
 EP 2388501 A1 11/2011
 FR 2906014 A1 3/2008
 FR 2994592 A1 2/2014
 KR 1020060096950 A 9/2006

* cited by examiner

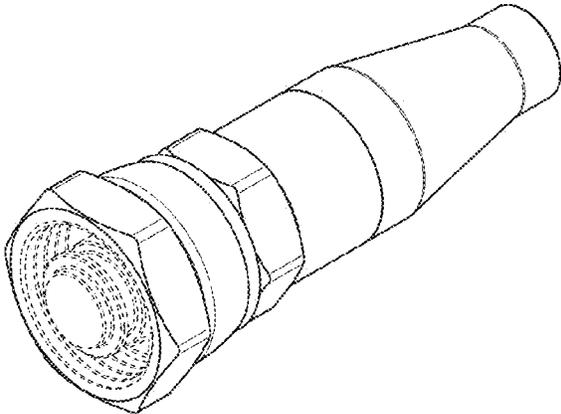


FIG. 1

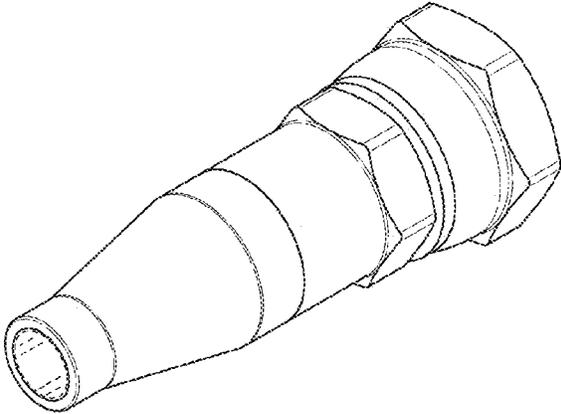


FIG. 2

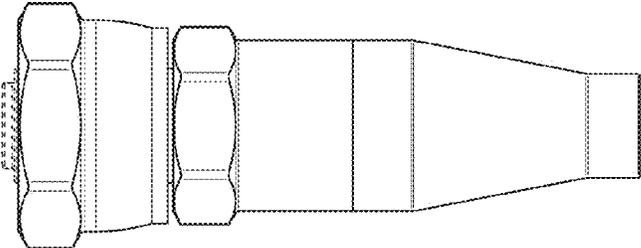


FIG. 3

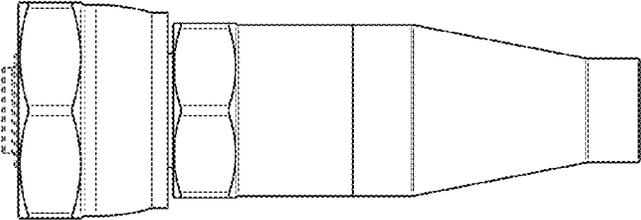


FIG. 4

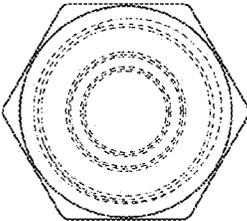


FIG. 5

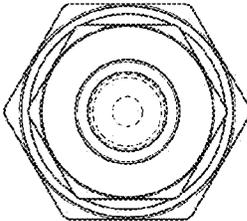


FIG. 6