

(12) **United States Design Patent** (10) **Patent No.:** **US D1,089,309 S**  
**Koch** (45) **Date of Patent:** **\*\* Aug. 19, 2025**

(54) **TURBO DISCHARGE COUPLER**

FOREIGN PATENT DOCUMENTS

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UT (US)

CN 3094937 \* 12/1998  
KR 300991818.0000 \* 2/2019

(Continued)

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

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(51) **LOC (15) Cl.** ..... **15-01**

(52) **U.S. Cl.** ..... **D15/5**  
USPC

(58) **Field of Classification Search**  
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D12/126, 400; D23/207-210, 233, 235,  
D23/259, 260, 262, 314, 323, 324, 328,  
D23/330, 341, 355, 386, 393, 395;  
D24/128  
CPC ..... F02B 77/13; F02B 37/18; F02B 37/186;  
F02B 47/08; F02B 39/12; F02B 33/44;  
F02B 29/00-086; F01D 17/10; F16L  
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B01D

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,872,060 A \* 2/1959 Brune ..... B65D 39/04  
215/364

5,771,695 A 6/1998 Halimi  
D427,668 S \* 7/2000 Stout, Jr. .... D23/262

(Continued)

OTHER PUBLICATIONS

How to Assemble Turbo Piping Clamps! Snow Performance Quick  
Disconnect Clamp Assemblies, posted Jun. 18, 2022 [online],  
[retrieved Nov. 1, 2024]. Retrieved from internet, <https://www.youtube.com/watch?v=G1emMA4CYyl> (Year: 2022).\*

(Continued)

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(57) **CLAIM**

The ornamental design for a turbo discharge coupler, as  
shown and described.

**DESCRIPTION**

FIG. 1 is a rear, side perspective view of the turbo discharge  
coupler;

FIG. 2 is a side elevation view of the turbo discharge  
coupler;

FIG. 3 is a rear elevation view of the turbo discharge  
coupler;

FIG. 4 is a right, side elevation view of the turbo discharge  
coupler;

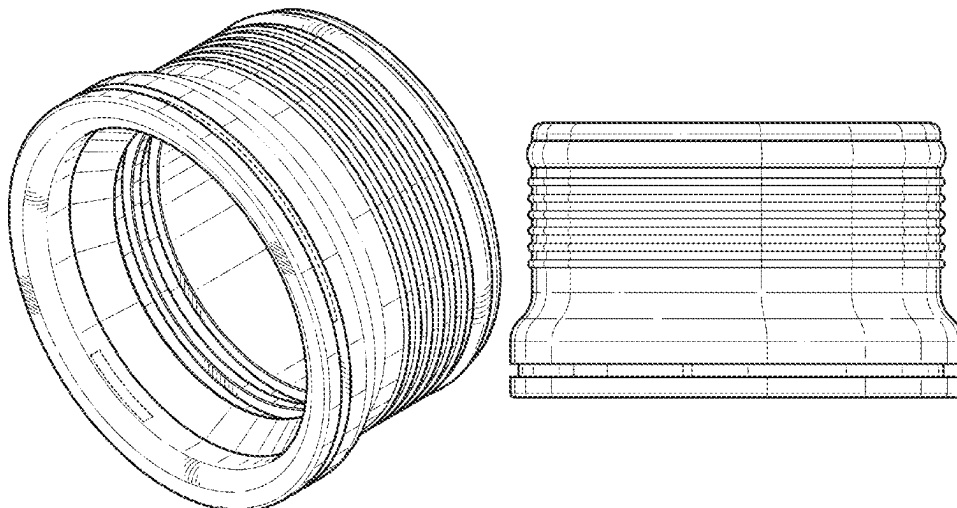
FIG. 5 is a left, side elevation view of the turbo discharge  
coupler;

FIG. 6 is a front elevation view of the turbo discharge  
coupler; and,

FIG. 7 is a cross-section view along the lines 7-7 of FIG. 3  
of the turbo discharge coupler.

The broken lines shown in the figures depict portions of the  
turbo discharge coupler that form no part of the claimed  
design.

**1 Claim, 4 Drawing Sheets**



(58) **Field of Classification Search**

CPC ..... 2201/305; B01D 2201/309; F01M 9/00;  
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See application file for complete search history.

2018/0126441 A1 5/2018 Rist  
2018/0372040 A1 12/2018 French  
2019/0093664 A1 3/2019 Jin  
2019/0331129 A1 10/2019 Zimmerman  
2020/0347796 A1\* 11/2020 Schmidt ..... F02B 37/02  
2021/0247010 A1 8/2021 Fossen

(56) **References Cited**

## U.S. PATENT DOCUMENTS

D492,024 S \* 6/2004 Stout, Jr. .... D23/393  
D551,336 S \* 9/2007 Haggkvist ..... D23/386  
D636,055 S \* 4/2011 Goldman ..... D23/209  
D710,485 S 8/2014 Nudo  
D715,145 S \* 10/2014 Yamagishi ..... D23/262  
D748,228 S \* 1/2016 Bayyouk ..... D23/269  
D753,726 S 4/2016 Kluss  
D828,399 S \* 9/2018 Fitzgerald ..... D15/5  
D833,581 S 11/2018 Atwell  
D880,962 S 4/2020 Fu  
10,690,145 B2 6/2020 Zimmerman  
D896,351 S 9/2020 Banks, III  
D946,053 S \* 3/2022 Koch ..... D15/5  
D965,101 S \* 9/2022 Birmelin ..... D23/213  
2006/0022460 A1 2/2006 Callahan  
2007/0157377 A1 7/2007 Mai  
2009/0053051 A1\* 2/2009 Cvjeticanin ..... F04D 29/4206  
415/203  
2009/0102181 A1\* 4/2009 Hartmann ..... F02M 35/10144  
285/26  
2012/0260652 A1 10/2012 Hiry

## FOREIGN PATENT DOCUMENTS

KR 301005027.0000 \* 5/2019  
KR 301005028.0000 \* 5/2019

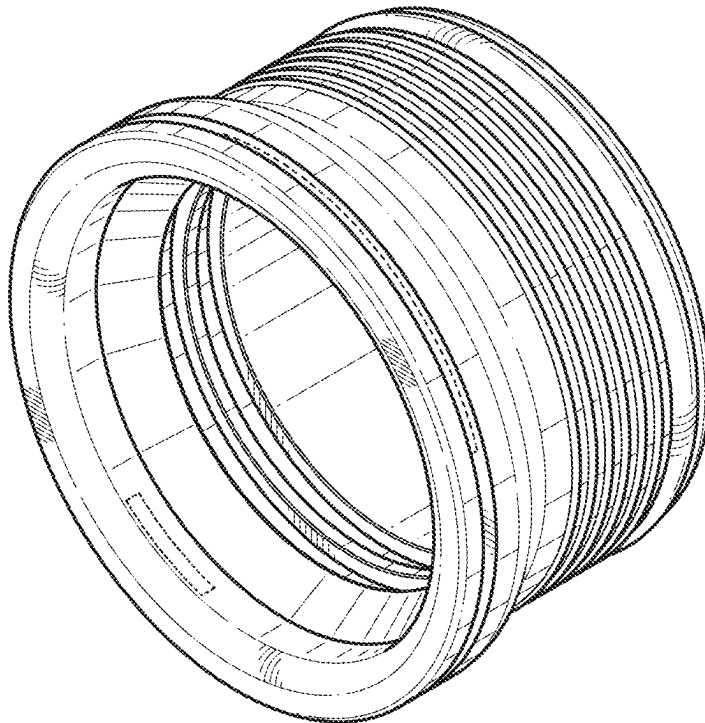
## OTHER PUBLICATIONS

2017-2022 Ford 6.7L Intercooler Pipe Upgrade Kit (OEM Replacement), posted Jan. 30, 2023 [online], [retrieved Nov. 1, 2024]. Retrieved from internet, <https://www.youtube.com/watch?v=OgOoDee34Ss> (Year: 2023).\*

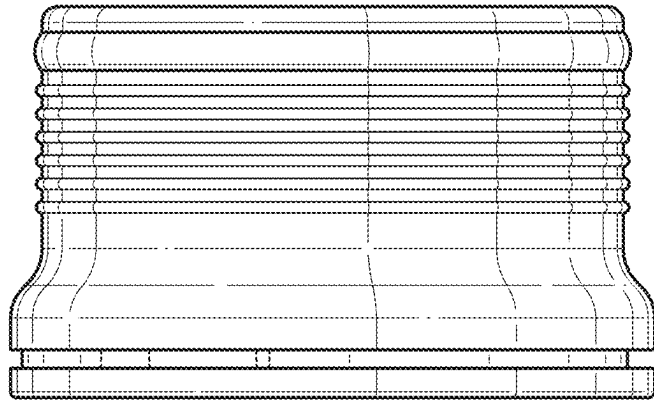
2017-2018 F250 and F350 6.7L H&S Intercooler Pipe Upgrade Kit Install, posted Mar. 12, 2018 [online], [retrieved Nov. 1, 2024]. Retrieved from internet, <https://www.youtube.com/watch?v=oPDQTW09oQ4> (Year: 2018).\*

Product Overview: H&S Motorsports Intercooler Pipe Upgrade Kit '17 Ford Powerstroke, posted Nov. 10, 2017 [online], [retrieved Nov. 1, 2024]. Retrieved from internet, <https://www.youtube.com/watch?v=oQ-dkjCvaU> (Year: 2017).\*

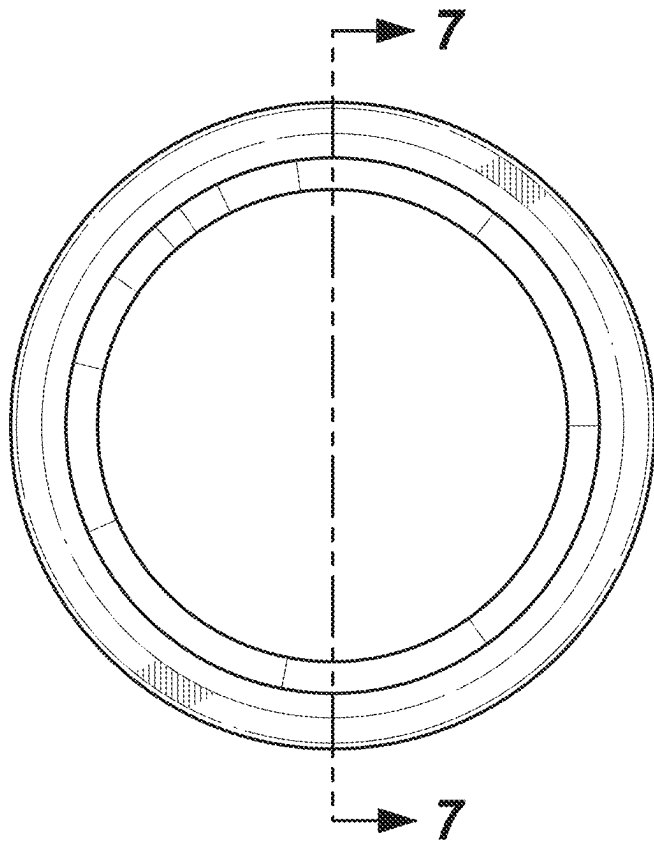
\* cited by examiner



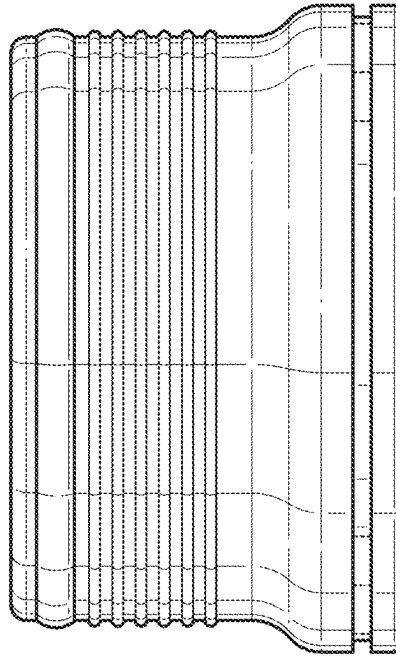
**FIG. 1**



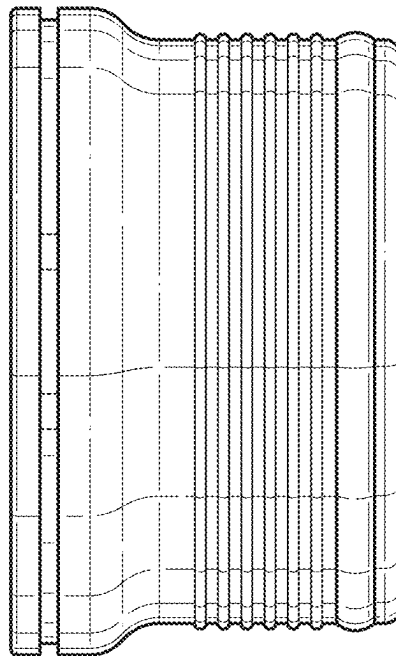
**FIG. 2**



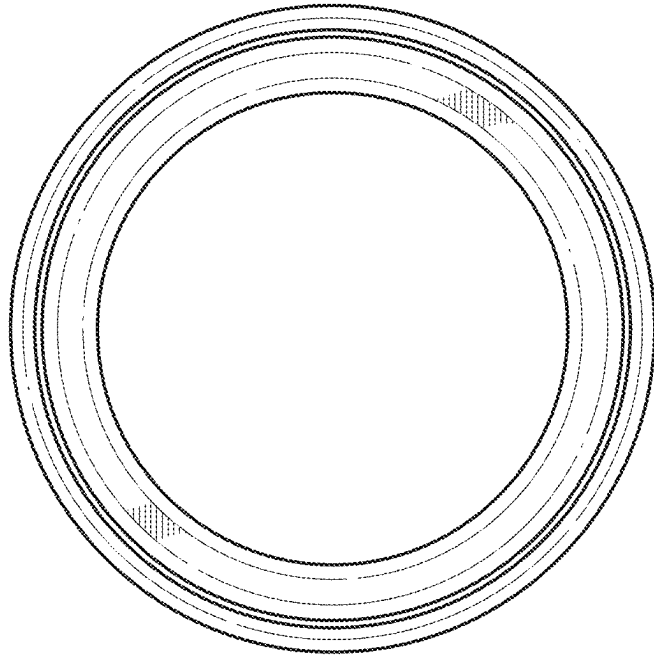
**FIG. 3**



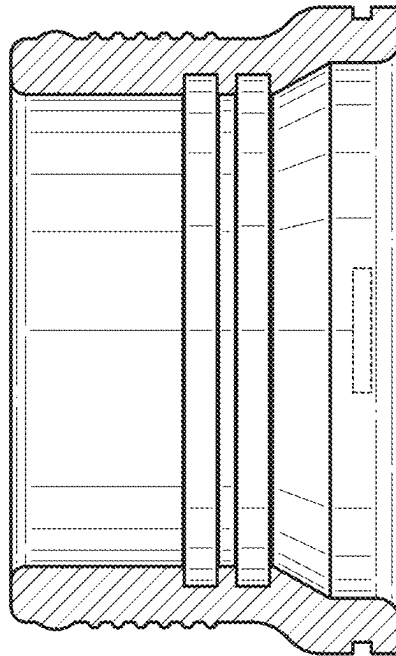
**FIG. 4**



**FIG. 5**



**FIG. 6**



**FIG. 7**