



US010697168B2

(12) **United States Patent**
Kozlowski

(10) **Patent No.:** **US 10,697,168 B2**
(45) **Date of Patent:** ***Jun. 30, 2020**

(54) **LINEAR WALL DRAIN WITH REMOVABLE ACCESS PANEL**

(71) Applicant: **Mirosław Kozłowski**, Trumbull, CT (US)

(72) Inventor: **Mirosław Kozłowski**, Trumbull, CT (US)

(73) Assignee: **Drains Unlimited LLC**, Darien, CT (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **16/673,278**

(22) Filed: **Nov. 4, 2019**

(65) **Prior Publication Data**

US 2020/0149261 A1 May 14, 2020

Related U.S. Application Data

(63) Continuation of application No. 16/185,549, filed on Nov. 9, 2018, now Pat. No. 10,550,563.

(51) **Int. Cl.**
E03C 1/22 (2006.01)
E03F 5/04 (2006.01)

(52) **U.S. Cl.**
CPC **E03F 5/0408** (2013.01); **E03C 1/22** (2013.01)

(58) **Field of Classification Search**
CPC **E03F 5/0408**
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

10,240,332 B1 *	3/2019	Stetson	.....	E03F 3/046
2010/0162481 A1 *	7/2010	Erlebach	.....	E03F 5/04
				4/613
2011/0162137 A1 *	7/2011	Kik, Sr.	.....	E03F 3/046
				4/613
2011/0203979 A1 *	8/2011	Schlueter	.....	E03F 5/04
				210/164
2012/0110827 A1 *	5/2012	Doolittle	.....	E03F 5/0408
				29/527.1
2013/0000034 A1 *	1/2013	Wedi	.....	E03F 5/0408
				4/613
2013/0276226 A1 *	10/2013	Cook	.....	A47K 3/40
				4/613
2016/0130794 A1 *	5/2016	Erlebach	.....	E03F 5/0408
				4/613
2016/0174773 A1 *	6/2016	Summers	.....	A47K 3/40
				4/613
2017/0241124 A1 *	8/2017	Erlebach	.....	A47K 3/40
2018/0038091 A1 *	2/2018	Ismert	.....	E03F 5/0404
2018/0155915 A1 *	6/2018	Meyers	.....	E03F 5/0408

OTHER PUBLICATIONS

Wall Drain with Recessed and Floor Curbless Entry by QUCIK Drain USA—Undated Document—I page.

* cited by examiner

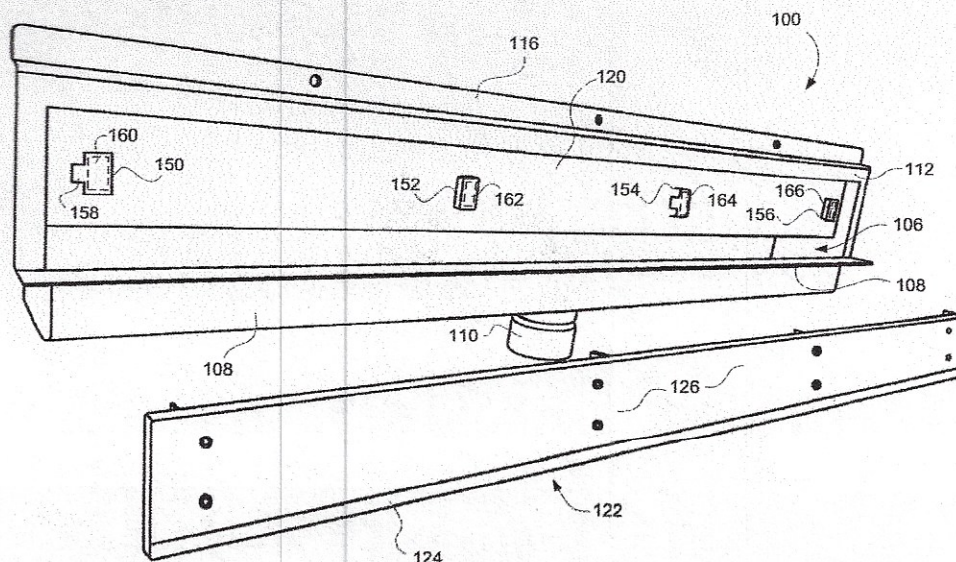
Primary Examiner — Paola Agudelo

(74) *Attorney, Agent, or Firm* — St. Onge Steward Johnston & Reens LLC

(57) **ABSTRACT**

A linear wall drain that includes a removable faceplate and is adapted to be secured to a recessed front wall, the faceplate including at least one magnet that is affixed to a front surface of the recessed front wall and at least one magnet affixed to a rear surface of the faceplate such that the two magnets will removeably hold the faceplate to the recessed front wall when the two magnets are aligned.

18 Claims, 5 Drawing Sheets





US00D894344S

(12) United States Design Patent
Kozlowski**(10) Patent No.: US D894,344 S****(45) Date of Patent: ** Aug. 25, 2020****(54) LINEAR WALL DRAIN****(71) Applicant: Miroslaw Kozlowski, Trumbull, CT (US)****(72) Inventor: Miroslaw Kozlowski, Trumbull, CT (US)****(73) Assignee: Drains Unlimited LLC, Darien, CT (US)****(**) Term: 15 Years****(21) Appl. No.: 29/664,133****(22) Filed: Sep. 21, 2018****(51) LOC (12) Cl. 23-01****(52) U.S. Cl. D23/259****(58) Field of Classification Search**

USPC D23/249, 259-261, 230, 233-234, D23/236-237, 207-209, 388, 303, 397; 137/15.23, 533.15, 533.11; 251/314, 315, 251/357, 359-362; 4/255.01-255.12, 4/286-289, 290-295, 300.3, 653, 613, 4/688-690, 507, 510, 650, 652, 251.2; 52/12, 16, 11, 169.5, 20, 302.1, 302.7, 52/311.3; 210/162-164; D25/152-153, D25/155-157

CPC E04D 2013/0413; E04D 2013/083; A47K 1/14; E03C 1/22; E03C 1/2302

See application file for complete search history.

(56) References Cited**U.S. PATENT DOCUMENTS**5,911,518 A * 6/1999 Jurek A47K 3/283
4/596
D519,618 S * 4/2006 Audette D23/261D602,126 S * 10/2009 May D23/259
7,774,870 B2 * 8/2010 Griffin E04H 4/1236
4/507
9,777,489 B2 * 10/2017 Gomo E03F 5/06
10,544,576 B2 * 1/2020 Ismert E03F 5/0404
10,550,563 B1 * 2/2020 Kozlowski E03F 5/0408
2011/0067175 A1 * 3/2011 Steylaerts E03F 5/0408
4/679
2012/0037552 A1 * 2/2012 Persson E03F 5/0407
210/163
2017/0241124 A1 * 8/2017 Erlebach A47K 3/40
2018/0340319 A1 * 11/2018 Schluter E03C 1/14
2020/0149261 A1 * 5/2020 Kozlowski E03C 1/22

* cited by examiner

Primary Examiner — Amy C Wierenga*(74) Attorney, Agent, or Firm* — St. Onge Steward
Johnston & Reens LLC**(57) CLAIM**

The ornamental design for a linear wall drain, as shown and described.

DESCRIPTION

FIG. 1 is a rear isometric view of a linear wall drain in accordance with the new design;

FIG. 2 is a front isometric view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a front view thereof;

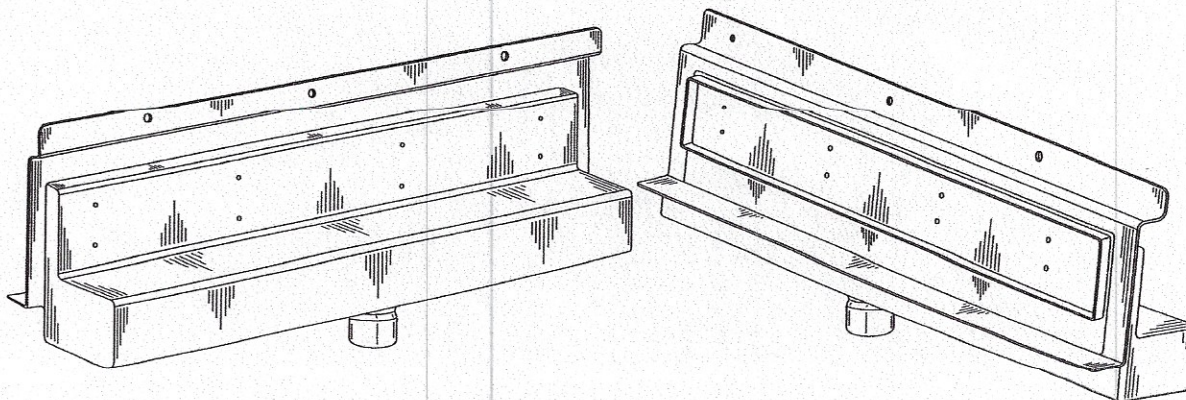
FIG. 5 is a left side view thereof;

FIG. 6 is a right side view thereof;

FIG. 7 is a top view thereof; and,

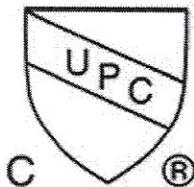
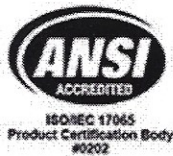
FIG. 8 is a bottom view thereof.

The broken lines shown in FIG. 8 illustrate portions of the linear wall drain that form no part of the claim.

1 Claim, 7 Drawing Sheets

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Effective Date: June 2019

Void After: June 2024

Product: Shower Drains

File No. 11387

Issued To: Drains Unlimited
110 Post Rd.
Darien, CT 06820

Identification: Manufacturer's name and/or trademark shall appear legibly on the upper portion of the body and the strainer. Product shall also bear the UPC® and cUPC® certification marks.

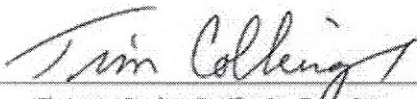
Characteristics: Shower drains for use in prefabricated and precast showers. The body can be of various materials Cast Iron, Brass, Stainless Steel, ABS and PVC. Strainer can be made of stainless steel 300 series, Brass, ABS, PVC or other approved material and shall be of the snap-on or screw fastened. To be installed in accordance with the manufacturer's instructions and the latest edition of the Uniform Plumbing Code.

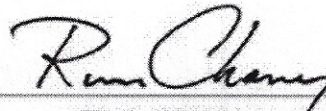
Products listed on this certificate have been tested by an IAPMO R&T recognized laboratory. This recognition has been granted based upon the laboratory's compliance to the applicable requirements of ISO/IEC 17025.

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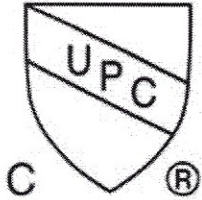
Product: Shower Drains

File No. 11387

Issued To: Drains Unlimited

Products are in compliance with the following standard(s):

ASME A112.18.2-2015/CSA B125.2-15



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MODELS:

Linear Floor Models:

<u>Model No.</u>	<u>Description:</u>
DUFB-SPG-29-PSS	29" long linear drain body with polished stainless steel perforated grate
DUFB-SPG-31-PSS	31" long linear drain body with polished stainless steel perforated grate
DUFB-SPG-33-PSS	33" long linear drain body with polished stainless steel perforated grate
DUFB-SPG-35-PSS	35" long linear drain body with polished stainless steel perforated grate
DUFB-SPG-39-PSS	39" long linear drain body with polished stainless steel perforated grate
DUFB-SPG-41-PSS	41" long linear drain body with polished stainless steel perforated grate
DUFB-SPG-43-PSS	43" long linear drain body with polished stainless steel perforated grate
DUFB-SPG-47-PSS	47" long linear drain body with polished stainless steel perforated grate
DUFB-SPG-53-PSS	53" long linear drain body with polished stainless steel perforated grate
DUFB-SPG-59-PSS	59" long linear drain body with polished stainless steel perforated grate
DUFB-SPG-65-PSS	65" long linear drain body with polished stainless steel perforated grate
DUFB-SPG-71-PSS	71" long linear drain body with polished stainless steel perforated grate
DUFB-SPG-29-BSS	29" long linear drain body with brushed stainless steel perforated grate
DUFB-SPG-31-BSS	31" long linear drain body with brushed stainless steel perforated grate
DUFB-SPG-33-BSS	33" long linear drain body with brushed stainless steel perforated grate
DUFB-SPG-35-BSS	35" long linear drain body with brushed stainless steel perforated grate
DUFB-SPG-39-BSS	39" long linear drain body with brushed stainless steel perforated grate
DUFB-SPG-41-BSS	41" long linear drain body with brushed stainless steel perforated grate
DUFB-SPG-43-BSS	43" long linear drain body with brushed stainless steel perforated grate
DUFB-SPG-47-BSS	47" long linear drain body with brushed stainless steel perforated grate
DUFB-SPG-53-BSS	53" long linear drain body with brushed stainless steel perforated grate
DUFB-SPG-59-BSS	59" long linear drain body with brushed stainless steel perforated grate
DUFB-SPG-65-BSS	65" long linear drain body with brushed stainless steel perforated grate
DUFB-SPG-71-BSS	71" long linear drain body with brushed stainless steel perforated grate
DUFB-SPG-29-BP	29" long linear drain body with Black powder coated stainless steel perforated grate
DUFB-SPG-31-BP	31" long linear drain body with Black powder coated stainless steel perforated grate
DUFB-SPG-33-BP	33" long linear drain body with Black powder coated stainless steel perforated grate
DUFB-SPG-35-BP	35" long linear drain body with Black powder coated stainless steel perforated grate
DUFB-SPG-39-BP	39" long linear drain body with Black powder coated stainless steel perforated grate
DUFB-SPG-41-BP	41" long linear drain body with Black powder coated stainless steel perforated grate
DUFB-SPG-43-BP	43" long linear drain body with Black powder coated stainless steel perforated grate
DUFB-SPG-47-BP	47" long linear drain body with Black powder coated stainless steel perforated grate
DUFB-SPG-53-BP	53" long linear drain body with Black powder coated stainless steel perforated grate
DUFB-SPG-59-BP	59" long linear drain body with Black powder coated stainless steel perforated grate



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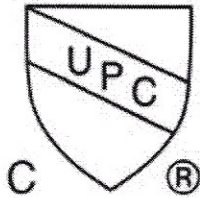
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DUFB-SPG-65-BP	perforated grate 65" long linear drain body with Black powder coated stainless steel
DUFB-SPG-71-BP	perforated grate 71" long linear drain body with Black powder coated stainless steel
DUFB-SPG-29-BRM	perforated grate 29" long linear drain body with solid brass matte clear coated
DUFB-SPG-31-BRM	perforated grate 31" long linear drain body with solid brass matte clear coated
DUFB-SPG-33-BRM	perforated grate 33" long linear drain body with solid brass matte clear coated
DUFB-SPG-35-BRM	perforated grate 35" long linear drain body with solid brass matte clear coated
DUFB-SPG-39-BRM	perforated grate 39" long linear drain body with solid brass matte clear coated
DUFB-SPG-41-BRM	perforated grate 41" long linear drain body with solid brass matte clear coated
DUFB-SPG-43-BRM	perforated grate 43" long linear drain body with solid brass matte clear coated
DUFB-SPG-47-BRM	perforated grate 47" long linear drain body with solid brass matte clear coated
DUFB-SPG-53-BRM	perforated grate 53" long linear drain body with solid brass matte clear coated
DUFB-SPG-59-BRM	perforated grate 59" long linear drain body with solid brass matte clear coated
DUFB-SPG-65-BRM	perforated grate 65" long linear drain body with solid brass matte clear coated
DUFB-SPG-71-BRM	perforated grate 71" long linear drain body with solid brass matte clear coated
DUFB-SPG-29-BRP	perforated grate 29" long linear drain body with solid brass gloss clear coated
DUFB-SPG-31-BRP	perforated grate 31" long linear drain body with solid brass gloss clear coated
DUFB-SPG-33-BRP	perforated grate 33" long linear drain body with solid brass gloss clear coated
DUFB-SPG-35-BRP	perforated grate 35" long linear drain body with solid brass gloss clear coated
DUFB-SPG-39-BRP	perforated grate 39" long linear drain body with solid brass gloss clear coated
DUFB-SPG-41-BRP	perforated grate 41" long linear drain body with solid brass gloss clear coated
DUFB-SPG-43-BRP	perforated grate 43" long linear drain body with solid brass gloss clear coated
DUFB-SPG-47-BRP	perforated grate 47" long linear drain body with solid brass gloss clear coated
DUFB-SPG-53-BRP	perforated grate 53" long linear drain body with solid brass gloss clear coated
DUFB-SPG-59-BRP	perforated grate 59" long linear drain body with solid brass gloss clear coated



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	perforated grate
DUFB-SPG-65-BRP	65" long linear drain body with solid brass gloss clear coated
	perforated grate
DUFB-SPG-71-BRP	71" long linear drain body with solid brass gloss clear coated
	perforated grate
DUFB-TIL-29	29" long linear drain body with stainless steel tile in tray
DUFB-TIL-31	31" long linear drain body with stainless steel tile in tray
DUFB-TIL-33	33" long linear drain body with stainless steel tile in tray
DUFB-TIL-35	35" long linear drain body with stainless steel tile in tray
DUFB-TIL-39	39" long linear drain body with stainless steel tile in tray
DUFB-TIL-41	41" long linear drain body with stainless steel tile in tray
DUFB-TIL-43	43" long linear drain body with stainless steel tile in tray
DUFB-TIL-47	47" long linear drain body with stainless steel tile in tray
DUFB-TIL-53	53" long linear drain body with stainless steel tile in tray
DUFB-TIL-59	59" long linear drain body with stainless steel tile in tray
DUFB-TIL-65	65" long linear drain body with stainless steel tile in tray
DUFB-TIL-71	71" long linear drain body with stainless steel tile in tray
DUFB-WW-29-P	29" long linear drain body with stainless steel wedge wire polished
DUFB-WW-31-P	31" long linear drain body with stainless steel wedge wire polished
DUFB-WW-33-P	33" long linear drain body with stainless steel wedge wire polished
DUFB-WW-35-P	35" long linear drain body with stainless steel wedge wire polished
DUFB-WW-39-P	39" long linear drain body with stainless steel wedge wire polished
DUFB-WW-41-P	41" long linear drain body with stainless steel wedge wire polished
DUFB-WW-43-P	43" long linear drain body with stainless steel wedge wire polished
DUFB-WW-47-P	47" long linear drain body with stainless steel wedge wire polished
DUFB-WW-53-P	53" long linear drain body with stainless steel wedge wire polished
DUFB-WW-59-P	59" long linear drain body with stainless steel wedge wire polished
DUFB-WW-65-P	65" long linear drain body with stainless steel wedge wire polished
DUFB-WW-71-P	71" long linear drain body with stainless steel wedge wire polished
DUFB-WW-29-B	29" long linear drain body with stainless steel wedge wire brushed
DUFB-WW-31-B	31" long linear drain body with stainless steel wedge wire brushed
DUFB-WW-33-B	33" long linear drain body with stainless steel wedge wire brushed
DUFB-WW-35-B	35" long linear drain body with stainless steel wedge wire brushed
DUFB-WW-39-B	39" long linear drain body with stainless steel wedge wire brushed
DUFB-WW-41-B	41" long linear drain body with stainless steel wedge wire brushed
DUFB-WW-43-B	43" long linear drain body with stainless steel wedge wire brushed
DUFB-WW-47-B	47" long linear drain body with stainless steel wedge wire brushed
DUFB-WW-53-B	53" long linear drain body with stainless steel wedge wire brushed
DUFB-WW-59-B	59" long linear drain body with stainless steel wedge wire brushed
DUFB-WW-65-B	65" long linear drain body with stainless steel wedge wire brushed
DUFB-WW-71-B	71" long linear drain body with stainless steel wedge wire brushed

Linear Wall Drain Models:

<u>Model No.</u>	<u>Description:</u>
DUW-S-12	12" long linear drain body with stainless steel tile in tray



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Product: Shower Drains

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DUW-S-29	29" long linear drain body with stainless steel tile in tray
DUW-S-31	31" long linear drain body with stainless steel tile in tray
DUW-S-33	33" long linear drain body with stainless steel tile in tray
DUW-S-35	35" long linear drain body with stainless steel tile in tray
DUW-S-39	39" long linear drain body with stainless steel tile in tray
DUW-S-41	41" long linear drain body with stainless steel tile in tray
DUW-S-43	43" long linear drain body with stainless steel tile in tray
DUW-S-47	47" long linear drain body with stainless steel tile in tray
DUW-S-53	53" long linear drain body with stainless steel tile in tray
DUW-S-59	59" long linear drain body with stainless steel tile in tray
DUW-S-65	65" long linear drain body with stainless steel tile in tray
DUW-S-71	71" long linear drain body with stainless steel tile in tray
DUW-T-12	12" long linear drain body with stainless steel tile in tray
DUW-T-29	29" long linear drain body with stainless steel tile in tray
DUW-T-31	31" long linear drain body with stainless steel tile in tray
DUW-T-33	33" long linear drain body with stainless steel tile in tray
DUW-T-35	35" long linear drain body with stainless steel tile in tray
DUW-T-39	39" long linear drain body with stainless steel tile in tray
DUW-T-41	41" long linear drain body with stainless steel tile in tray
DUW-T-43	43" long linear drain body with stainless steel tile in tray
DUW-T-47	47" long linear drain body with stainless steel tile in tray
DUW-T-53	53" long linear drain body with stainless steel tile in tray
DUW-T-59	59" long linear drain body with stainless steel tile in tray
DUW-T-65	65" long linear drain body with stainless steel tile in tray
DUW-T-71	71" long linear drain body with stainless steel tile in tray
DUW-RS-29	29" long linear drain body with stainless steel tile in tray
DUW-RS-31	31" long linear drain body with stainless steel tile in tray
DUW-RS-33	33" long linear drain body with stainless steel tile in tray
DUW-RS-35	35" long linear drain body with stainless steel tile in tray
DUW-RS-39	39" long linear drain body with stainless steel tile in tray
DUW-RS-41	41" long linear drain body with stainless steel tile in tray
DUW-RS-43	43" long linear drain body with stainless steel tile in tray
DUW-RS-47	47" long linear drain body with stainless steel tile in tray
DUW-RS-53	53" long linear drain body with stainless steel tile in tray
DUW-RS-59	59" long linear drain body with stainless steel tile in tray
DUW-RS-65	65" long linear drain body with stainless steel tile in tray
DUW-RS-71	71" long linear drain body with stainless steel tile in tray
DUW-RT-29	29" long linear drain body with stainless steel tile in tray
DUW-RT-31	31" long linear drain body with stainless steel tile in tray
DUW-RT-33	33" long linear drain body with stainless steel tile in tray
DUW-RT-35	35" long linear drain body with stainless steel tile in tray
DUW-RT-39	39" long linear drain body with stainless steel tile in tray
DUW-RT-41	41" long linear drain body with stainless steel tile in tray
DUW-RT-43	43" long linear drain body with stainless steel tile in tray
DUW-RT-47	47" long linear drain body with stainless steel tile in tray
DUW-RT-53	53" long linear drain body with stainless steel tile in tray
DUW-RT-59	59" long linear drain body with stainless steel tile in tray
DUW-RT-65	65" long linear drain body with stainless steel tile in tray



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File No. 11387

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DUW-RT-71 71" long linear drain body with stainless steel tile in tray