



US00D968934S

(12) **United States Design Patent**  
**Anzai et al.**

(10) **Patent No.:** **US D968,934 S**  
(45) **Date of Patent:** **\*\* Nov. 8, 2022**

(54) **WIRE ROPE CORE**  
(71) Applicant: **TOKYO ROPE MFG. CO., LTD.**,  
Tokyo (JP)  
(72) Inventors: **Arata Anzai**, Tokyo (JP); **Shigeki**  
**Watanabe**, Tokyo (JP)  
(73) Assignee: **TOKYO ROPE MFG. CO., LTD.**,  
Tokyo (JP)  
(\*\*) Term: **15 Years**

3,307,343 A \* 3/1967 Gilmore ..... D07B 1/0686  
57/215  
3,705,489 A \* 12/1972 Smollinger ..... D07B 1/0686  
57/217  
3,783,574 A \* 1/1974 Cennerelli ..... E04C 5/203  
D25/124  
D230,904 S \* 3/1974 Abernethy ..... D1/104  
D231,052 S \* 4/1974 Abernethy ..... D1/104  
4,498,282 A \* 2/1985 Graetz ..... D07B 1/148  
428/377  
D338,551 S \* 8/1993 Teague ..... D2/894  
D372,351 S \* 8/1996 Margolis ..... D1/102  
5,700,494 A \* 12/1997 Masse ..... A23G 9/283  
426/516

(21) Appl. No.: **29/725,180**  
(22) Filed: **Feb. 23, 2020**  
(30) **Foreign Application Priority Data**  
Aug. 27, 2019 (JP) ..... D2019-018939  
(51) **LOC (13) Cl.** ..... **09-06**  
(52) **U.S. Cl.**  
USPC ..... **D8/356**; D8/368  
(58) **Field of Classification Search**  
USPC ..... D8/356, 354, 349, 368; 24/599.9;  
D13/155, 133; D25/153  
CPC ..... B65H 57/16; B63B 21/045; F16B 45/02;  
H02J 7/0026; H02G 11/02; D07B 5/005  
See application file for complete search history.

(56) **References Cited**  
U.S. PATENT DOCUMENTS  
2,053,238 A \* 9/1936 Dulany ..... B65D 85/34  
99/545  
2,160,902 A \* 6/1939 Raymond ..... A23L 19/105  
426/550  
D134,414 S \* 11/1942 Orme, Jr. .... D1/120  
2,874,649 A \* 2/1959 Pelletier ..... A23G 3/2007  
426/249  
2,937,095 A \* 5/1960 Zitin ..... A23L 13/03  
99/428

(Continued)

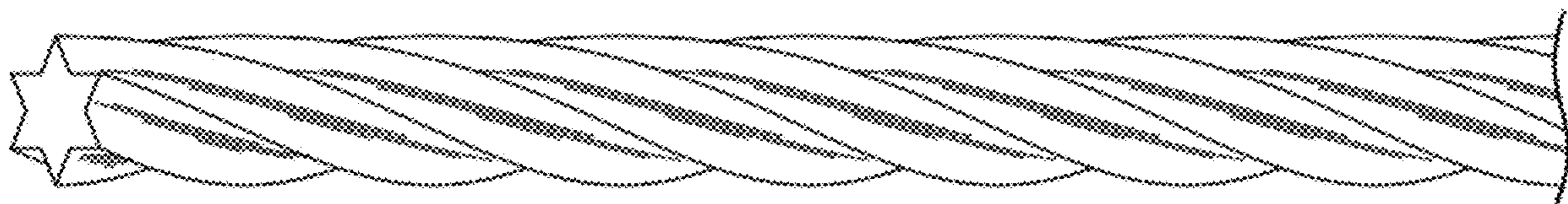
*Primary Examiner* — Cynthia R Underwood  
(74) *Attorney, Agent, or Firm* — Dickinson Wright PLLC

(57) **CLAIM**  
The ornamental design for a wire rope core, as shown and described.

**DESCRIPTION**

FIG. 1 is a front view a wire rope core of an embodiment, showing my new design;  
FIG. 2 is a top view thereof;  
FIG. 3 is a left side view thereof;  
FIG. 4 is a sectional view taken along line 4-4 of FIG. 1;  
FIG. 5 is a sectional view taken along line 5-5 of FIG. 1  
FIG. 6 is a perspective view thereof; and,  
FIG. 7 is a perspective view showing the state of use thereof with the wire rope surrounding the wire rope core, being shown in phantom lines.  
The front view and the rear view are identical, the top view and the bottom view are identical, and the left side view and the right side view are identical.  
This design is continuous in left and right directions in the front view.  
The broken phantom lines depict unclaimed subject matter only and form no part of the claimed design.

**1 Claim, 7 Drawing Sheets**



(56)

References Cited

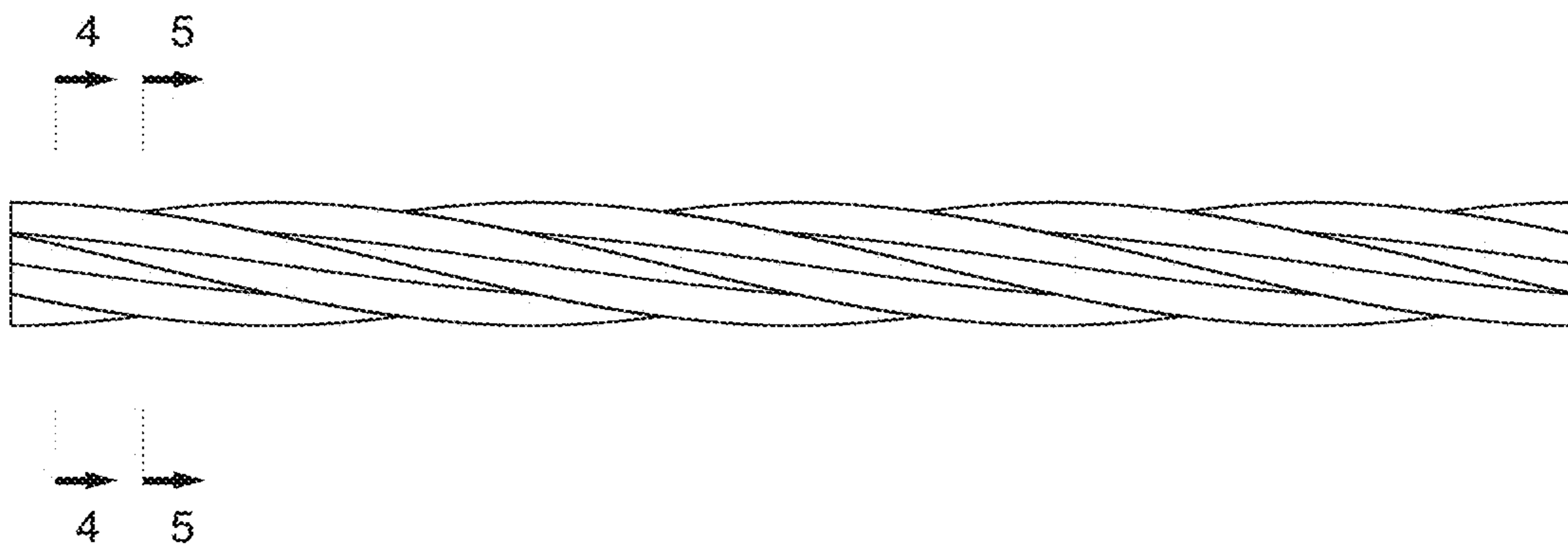
U.S. PATENT DOCUMENTS

5,823,387 A \* 10/1998 Manadanas ..... B65D 35/242  
425/467  
5,993,784 A \* 11/1999 Hill ..... A61Q 11/00  
426/54  
6,138,314 A \* 10/2000 Schiff ..... A46D 1/0238  
428/397  
D478,705 S \* 8/2003 Dahl ..... A23K 40/20  
D1/125  
D492,467 S \* 7/2004 Pittard ..... 426/500  
D507,691 S \* 7/2005 Leiweke ..... D1/121  
D511,236 S \* 11/2005 Crum ..... D1/126  
7,032,541 B1 \* 4/2006 Tsengas ..... A01K 15/026  
119/710  
D595,926 S \* 7/2009 Madsen ..... D1/106  
D683,517 S \* 6/2013 Tansey ..... D1/125  
D683,927 S \* 6/2013 Tansey ..... D1/125  
D683,928 S \* 6/2013 Tansey ..... D1/125  
D684,337 S \* 6/2013 Tansey ..... D1/125  
8,916,223 B2 \* 12/2014 Burgess ..... A23G 3/2015  
426/516

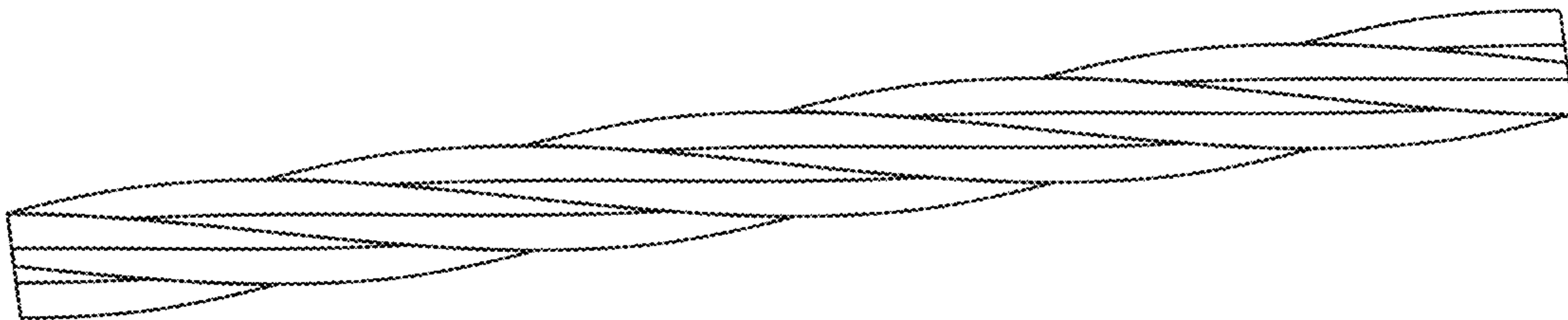
8,943,789 B2 \* 2/2015 Takeuchi ..... D07B 7/027  
57/220  
9,506,188 B2 \* 11/2016 Poursadian ..... D07B 1/0686  
D775,085 S \* 12/2016 Hachisuka ..... D13/153  
D830,311 S \* 10/2018 Faul ..... D13/153  
D831,470 S \* 10/2018 Russell ..... F16G 15/06  
D8/356  
10,344,427 B2 \* 7/2019 Coutaz ..... D07B 7/169  
10,640,922 B2 \* 5/2020 Traxl ..... D07B 7/027  
D892,427 S \* 8/2020 Cavalcanti ..... D1/125  
10,851,493 B2 \* 12/2020 Watanabe ..... D07B 1/005  
D952,336 S \* 5/2022 Piccioli ..... D3/246  
2002/0150654 A1 \* 10/2002 Asher ..... A23P 30/25  
426/89  
2006/0141105 A1 \* 6/2006 Derrieu ..... A01K 15/025  
426/132  
2008/0003270 A1 \* 1/2008 Garcia Martinez .... A23K 10/26  
426/89  
2008/0020100 A1 \* 1/2008 Madsen ..... A23G 3/48  
426/102  
2017/0042192 A1 \* 2/2017 She ..... A23K 20/158  
2018/0251940 A1 \* 9/2018 Carter ..... D07B 1/144

\* cited by examiner

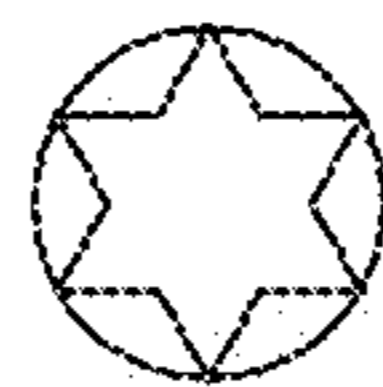
*Fig. 1*



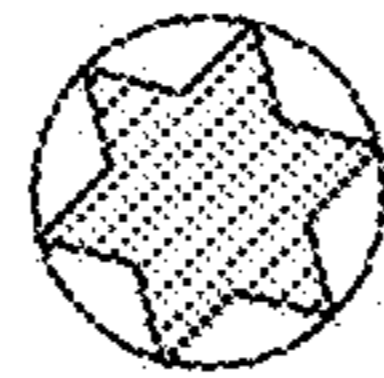
*Fig. 2*



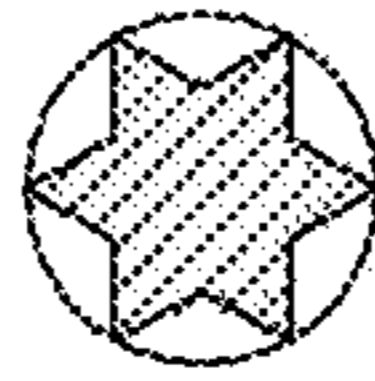
*Fig. 3*



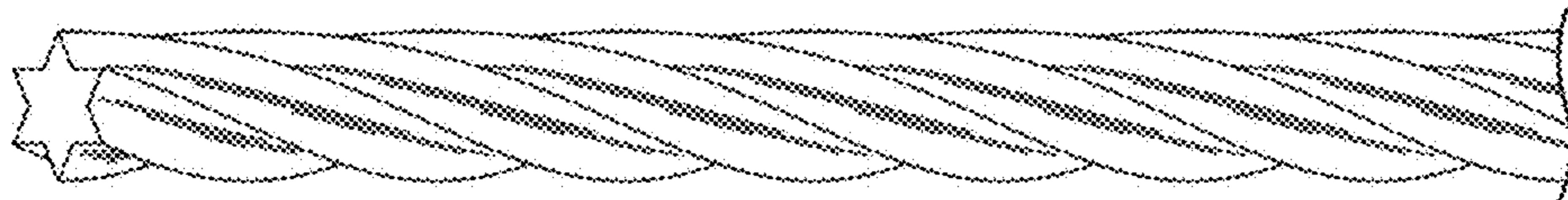
*Fig. 4*



*Fig. 5*



*Fig. 6*





*Fig. 7*

