



US00D717156S

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

(10) **Patent No.:** **US D717,156 S**

(45) **Date of Patent:** **\*\* Nov. 11, 2014**

(54) **FIBROUS CONCRETE REINFORCEMENT**

(71) Applicant: **Hagihara Industries Inc.**, Kurashiki (JP)

(72) Inventors: **Yuichi Kaihara**, Kurashiki (JP); **Michio Okuhira**, Kurashiki (JP)

(73) Assignee: **Hagihara Industries Inc.**, Okayama (JP)

(\*\*) Term: **14 Years**

(21) Appl. No.: **29/459,344**

(22) Filed: **Jun. 28, 2013**

(51) **LOC (10) Cl.** ..... **08-05**

(52) **U.S. Cl.**  
USPC ..... **D8/354**

(58) **Field of Classification Search**  
USPC ..... D8/349, 354, 370, 499; 428/399, 357,  
428/574, 600; 106/644; 52/659

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

928,430	A *	7/1909	Dudley	52/850
1,635,658	A *	7/1927	Boardman	52/850
3,214,877	A *	11/1965	Akin	428/574
3,400,507	A *	9/1968	MacChesney	106/643
3,936,278	A *	2/1976	Moens	428/592
4,059,950	A *	11/1977	Negishi et al.	57/208
4,194,873	A *	3/1980	Killmeyer	425/93
4,233,364	A *	11/1980	van Thiel	428/399
4,297,414	A *	10/1981	Matsumoto	428/400
4,804,585	A *	2/1989	Tani et al.	428/574
4,883,713	A *	11/1989	Destree et al.	428/397
4,960,649	A *	10/1990	Takata et al.	428/574
5,451,471	A *	9/1995	Over et al.	
5,965,277	A *	10/1999	Banthia et al.	428/574
6,060,163	A *	5/2000	Naaman	428/397
6,177,195	B1	1/2001	Yabuki et al.	

D454,004	S *	3/2002	Naghibi	D4/136
7,045,210	B2 *	5/2006	Bleibler	428/367
7,267,873	B2 *	9/2007	Pilakoutas et al.	428/379
8,771,837	B2 *	7/2014	Stahl	428/600
2001/0023568	A1 *	9/2001	Edwards et al.	52/649.1

**FOREIGN PATENT DOCUMENTS**

JP	S61-301	B	1/1986
JP	2003-300758	A	10/2003
JP	D1278597		6/2006
JP	D1278598		6/2006
JP	3976895	B	6/2007
JP	2009-509899	A	3/2009

\* cited by examiner

*Primary Examiner* — Mark Goodwin

(74) *Attorney, Agent, or Firm* — DLA Piper LLP (US)

(57) **CLAIM**

The ornamental design for a fibrous concrete reinforcement, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a fibrous concrete reinforcement taken from the front, top and left side thereof, showing our new design;

FIG. 2 is a top plan view thereof;

FIG. 3 is a bottom plan view thereof;

FIG. 4 is a front elevational view thereof;

FIG. 5 is a rear elevational view thereof;

FIG. 6 is a left side elevational view thereof;

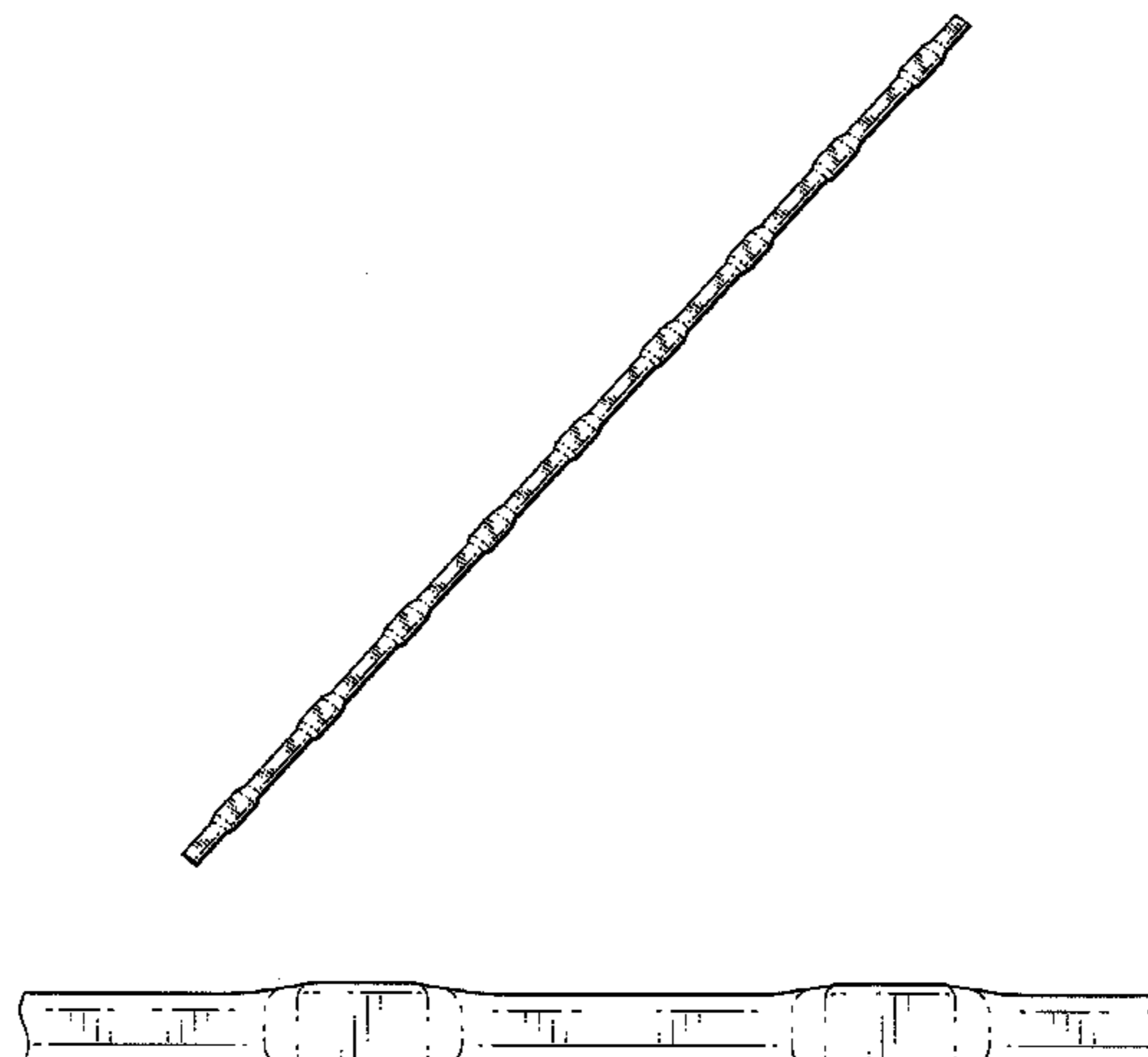
FIG. 7 is a right side elevational view thereof;

FIG. 8 is a magnified top plan view of a part of the fibrous concrete reinforcement

FIG. 9 is a magnified bottom plan view of a part of the fibrous concrete reinforcement; and,

FIG. 10 is a magnified front elevational view of a part of the fibrous concrete reinforcement.

**1 Claim, 2 Drawing Sheets**



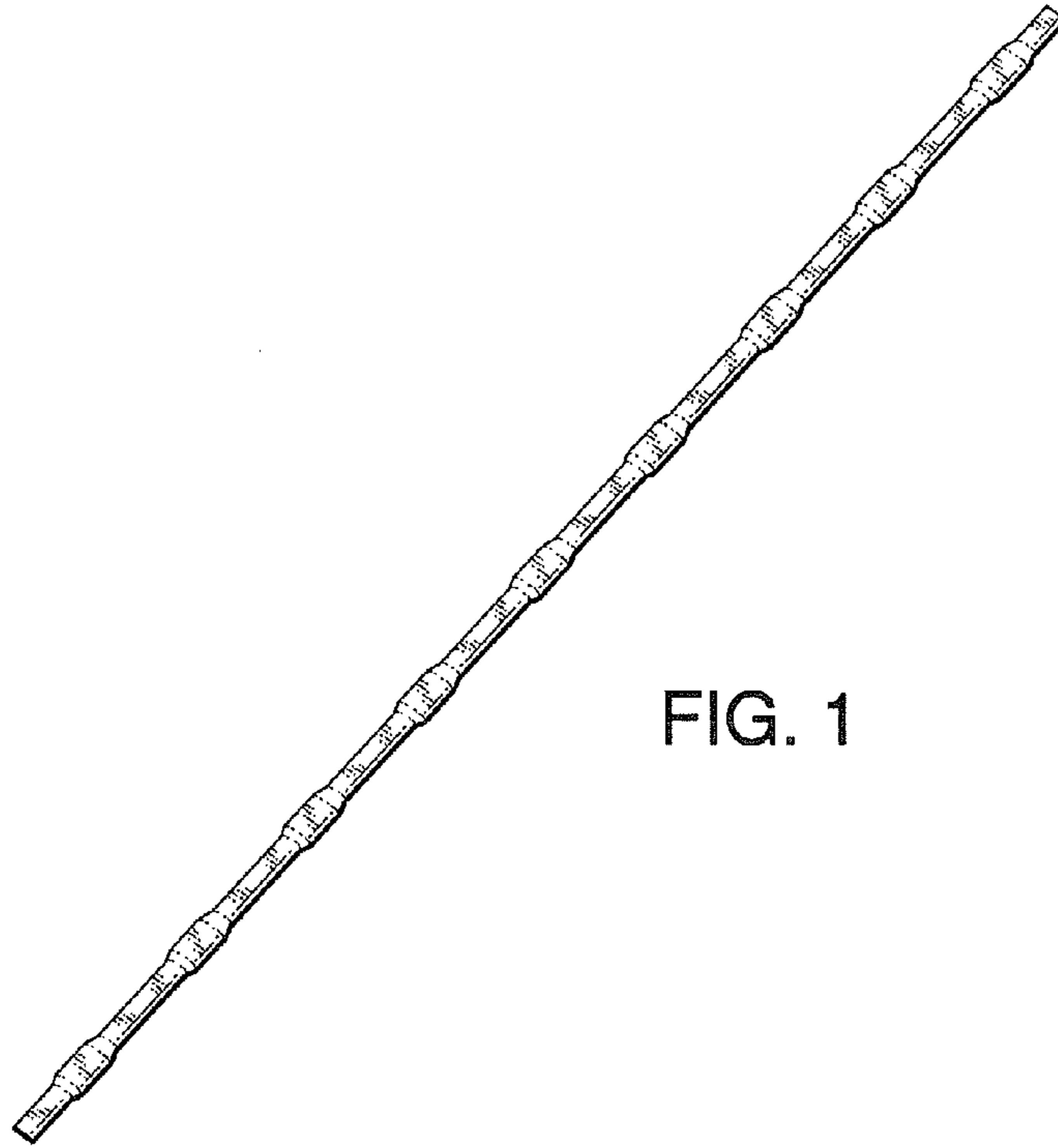


FIG. 1



FIG. 2



FIG. 3



FIG. 4



FIG. 5

FIG. 6

FIG. 7

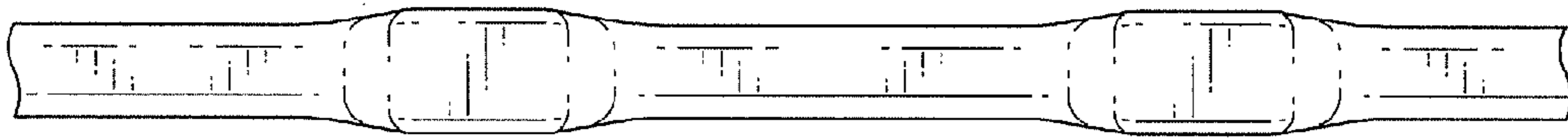


FIG. 8

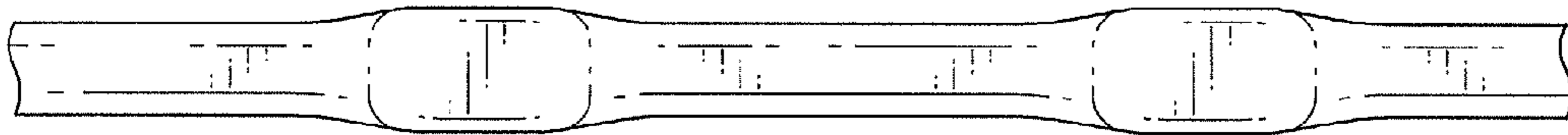


FIG. 9



FIG. 10