

[54] STEEL CORE FOR REINFORCING ELASTOMERIC ARTICLES

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[21] Appl. No.: 944,465

[22] Filed: Dec. 19, 1986

[30] Foreign Application Priority Data

Dec. 23, 1985 [JP] Japan ..... 60-287958

[51] Int. Cl.<sup>4</sup> ..... D02G 3/12; D07B 1/00; D07B 1/10

[52] U.S. Cl. .... 57/212; 57/902; 428/371

[58] Field of Search ..... 57/200, 210, 212, 215, 57/217, 258, 9, 902; 152/451; 428/371

[56] References Cited

U.S. PATENT DOCUMENTS

2,605,201	7/1952	Howe .....	57/902 X
3,805,508	4/1974	Maderna .....	57/902 X
4,544,603	10/1985	Richards .....	57/902 X
4,545,190	10/1985	Rye et al. ....	57/212
4,566,261	1/1986	Brandyberry et al. ....	57/212
4,679,387	7/1987	Weidenhaupt et al. ....	57/212

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[57] ABSTRACT

A reinforcing structure for elastomeric articles, having 2-5 filaments. The filaments are arranged in parallel and have a common plane passing through them all. The wire has a diameter smaller than that of the filaments. The wire wraps the filaments together so that a relative position of the filaments with respect to each other and also bending rigidities in predetermined directions do not vary over a full length of the wrapped filament structure.

12 Claims, 10 Drawing Figures

