

[54] **RIBBON CABLE, A TRANSPOSED RIBBON CABLE, AND A METHOD AND APPARATUS FOR MANUFACTURING TRANSPOSED RIBBON CABLE**

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[58] Field of Search ..... **174/34, 72 A, 72 TR, 174/117 R, 117 F, 117 FF, 117 PC, 119 R, 119 C, 126 S, 128 S**

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

2,757,298	7/1956	Botts et al. ....	310/208
2,929,744	3/1960	Mathes et al. ....	174/119 R
3,005,739	10/1961	Lang et al. ....	174/117 F
3,526,544	9/1970	Scala et al. ....	174/117 FF
3,528,852	9/1970	Olson et al. ....	174/117 FF
3,634,808	1/1972	Morrison ....	174/117 FF X
3,842,192	10/1974	Hilker et al. ....	174/120 SR

4,210,773	7/1980	Haley et al. ....	174/72 A
4,370,548	1/1983	Nagasawa et al. ....	219/345 X
4,391,848	7/1983	Hilker ....	427/118
4,430,139	2/1984	Baverstock ....	174/117 F X
4,431,860	2/1984	Perco et al. ....	174/34
4,439,256	3/1984	Meserve ....	174/34 X
4,486,253	12/1984	Gonia ....	174/117 F X

**FOREIGN PATENT DOCUMENTS**

515052	12/1930	Fed. Rep. of Germany .....	174/72 TR
121985	9/1979	Japan .....	174/119 R
382329	10/1932	United Kingdom .....	174/72 TR
651950	4/1951	United Kingdom .....	174/34

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[57] **ABSTRACT**

Improved method and apparatus for manufacturing transposed ribbon cable, an improved ribbon cable, and an improved transposed ribbon cable. The transposed ribbon cable is manufactured by the method and apparatus of the invention by folding a ribbon cable angularly with respect to the longitudinal axis repeatedly while advancing the ribbon cable incrementally.

**15 Claims, 13 Drawing Figures**

