

(12) United States Design Patent (10) Patent No.: US D489,967 S (45) Date of Patent: ****** May 18, 2004 Funk

- **TUBE CONNECTOR** (54)
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14 Years (**) Term:

- Appl. No.: 29/186,507 (21)
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Primary Examiner—Holly Baynham

(57)**CLAIM**

The ornamental design for a tube connector, as shown and described.

DESCRIPTION

FIG. 1 is a isometric view of my new tube connector showing the new design; FIG. 2 is a exploded view of FIG. 1 with a small portion cut away for clarity;

(51)	LOC (7) Cl	
(52)	U.S. Cl	
(58)	Field of Search	
		403/205, 170–171

References Cited (56) U.S. PATENT DOCUMENTS

4,793,637 A * 12/1988 Laipply et al. 285/39 5,141,264 A * 8/1992 Usui 285/319 6,053,639 A * 4/2000 Chen 385/53 6,511,003 B2 * 1/2003 Dallmeyer et al. 239/585.1 FOREIGN PATENT DOCUMENTS

JP F16L/41/02 11264492 A * 9/1999 * cited by examiner

FIG. 3 is a enlarged front end elevation view of FIG. 1; FIG. 4 is a enlarged rear end elevation view of FIG. 1; FIG. 5 is a enlarged right side elevation view of FIG. 1 the left side elevation view being a mirror image thereof; FIG. 6 is a enlarged top end view of FIG. 1; and, FIG. 7 is a enlarged bottom end view of FIG. 1. Broken lines throughout the views show the environment in which the design is used and form no part of the claimed design.

1 Claim, 6 Drawing Sheets



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Fig. 4

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Fig. 5

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Fig. 6



