

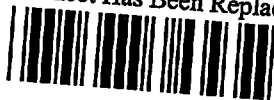
**KINK-RESISTANT, HIGH PRESSURE HOSE CONSTRUCTION HAVING
A COMPOSITE, SPIRAL WOUND INNERMOST
REINFORCEMENT LAYER**

ABSTRACT OF THE DISCLOSURE

A flexible kink-resistant hose (10) construction to convey fluids under high pressure includes a thermoplastic core (14) having inner and outer surfaces (16,18). An innermost reinforcement layer (20) is formed as a composite of at least one metallic wire element (40) and at least one non-metallic fibre element (42). The metallic wire element (40) is wound helically in one direction over the outer surface of a thermoplastic core (14) at a predetermined pitch angle (θ) measured relative to the longitudinal axis (12) to define a series of spaced apart first turns. The fibre element (42), in turn, is wound helically over the outer surface (18) of the core in the same direction and at the same pitch angle as the metallic wire element to define a series of second turns each occupying the space between adjacent first turns or the wire element (40) to thereby prevent the wall of the core (14) from being extruded therebetween as the hose (10) is flexed to its minimum bend radius.

FIG. 1

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