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(54) **COILED COVER FOR FIREARM GAS TUBE**

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(58) **Field of Classification Search**

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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,198,076	A *	8/1965	Stoner	F41A 3/26	42/75.02
3,618,457	A *	11/1971	Miller	F41A 5/18	89/1.4
4,765,224	A *	8/1988	Morris	F41A 5/26	42/75.02
6,931,978	B1 *	8/2005	Dionne	F41A 3/12	42/69.02
7,464,496	B1	12/2008	Davies et al.		
8,141,474	B2 *	3/2012	Dublin	F41A 3/72	89/1.4
8,166,864	B2 *	5/2012	Herring	F41A 5/18	89/191.02
8,261,653	B2 *	9/2012	Crommett	F41A 5/28	89/191.01
8,584,575	B2 *	11/2013	Crommett	F41A 5/28	89/191.01
8,661,963	B2 *	3/2014	Patel	F41A 3/66	42/16
8,973,483	B2 *	3/2015	Sullivan	89/193	
9,038,525	B2 *	5/2015	Sullivan	F16J 9/16	89/191.01
2011/0030260	A1 *	2/2011	Herring	F41A 5/18	42/16
2011/0303082	A1 *	12/2011	Hochstrate	F41A 3/66	89/193
2012/0079935	A1 *	4/2012	Herring	F41A 5/18	89/193
2012/0137872	A1 *	6/2012	Crommett	F41A 5/26	89/193
2012/0180648	A1 *	7/2012	Sullivan	F16J 9/16	89/193
2012/0204713	A1 *	8/2012	Patel	F41A 3/66	89/199
2013/0055883	A1 *	3/2013	Cassels	F41A 5/28	89/193
2013/0276624	A1 *	10/2013	Crommett	F41A 5/26	89/193

* cited by examiner

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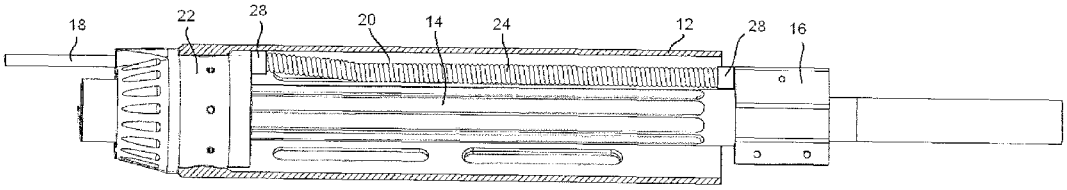
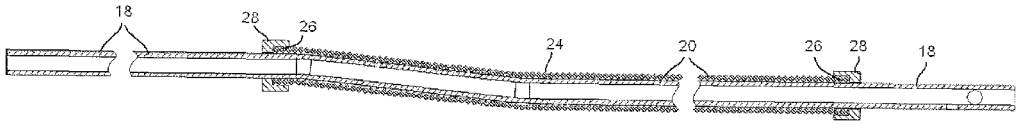
(57) **ABSTRACT**

A heat dissipating and strength enhancing cover for a firearm gas tube includes a wire helix formed of closely adjacent coils having an inner diameter sized to closely fit over and in contact with an exterior surface of a gas tube. The wire of the gas tube cover may be made of a Beryllium-Copper alloy and have sufficient flexibility to accommodate at least one bend in the gas tube. The ends of the gas tube cover may be formed to a substantially flat surface that is substantially perpendicular to a longitudinal axis of the helix and may include caps covering first and second ends of the gas tube cover. The caps may prevent rotation of the cover when installed. The cover may extend substantially between a gas block and means for mounting a barrel when installed.

6 Claims, 2 Drawing Sheets