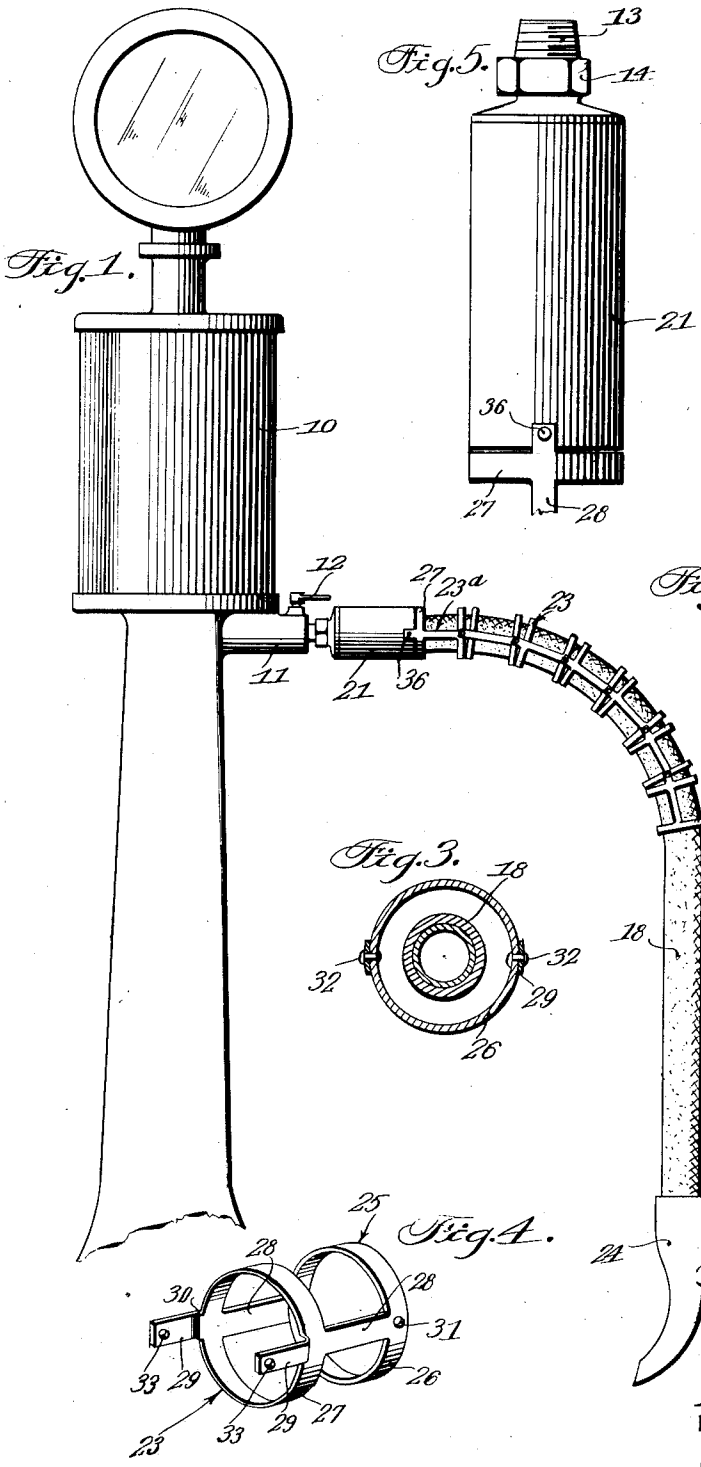
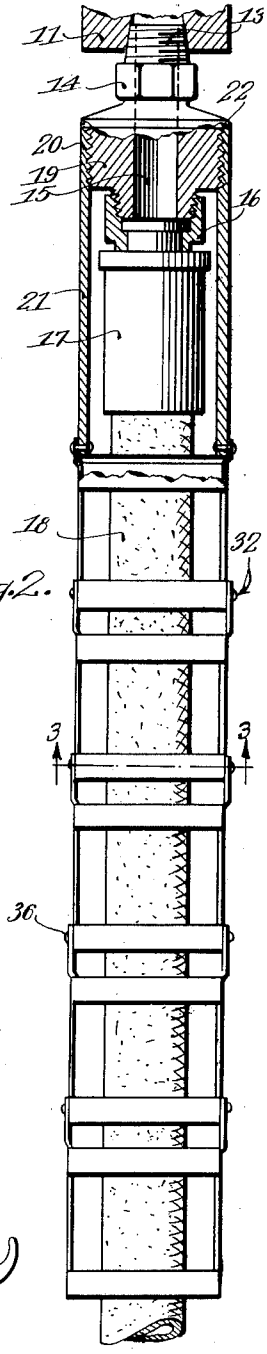
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D. D. FORTUNE

HOSE PROTECTOR

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HOSE PROTECTOR.

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This invention relates to a dispensing hose for gasoline filling stations.

An object of the invention is the provision of combined protective and supporting sheath for the inner ends of dispensing hose, said sheath being of a flexible nature and being capable of adapting itself to the conformation of the hose when in use.

Another object of the invention is the provision of a flexible protective sheath for that end of a dispensing hose where connected to a pump in order to prevent breakage of the hose at that point, the sheath having a loosely threaded connection with the pump to provide for compensation when the hose is twisted or slightly rotated.

A further object of the invention is the provision of a flexible sheath for a dispensing hose in which a plurality of sections formed of metal or rigid material are pivotally connected together and conform to the configuration of the hose when in use.

This invention will be best understood from a consideration of the following detailed description, in view of the accompanying drawings forming a part of the specification; nevertheless, it is to be understood that the invention is not confined to the disclosure being susceptible of such changes and modifications which shall define no material departure from the salient features of the invention as expressed in the appended claims.

In the drawings:—

Figure 1 is a side view in elevation of a gasoline dispensing pump and hose showing my invention applied thereto,

Figure 2 is a view in elevation and partly in section of the protective sheath applied to a dispensing hose,

Figure 3 is a horizontal section taken along the line 3—3 of Fig. 2, and

Figure 4 is a view in perspective of a section of the protective sheath,

Figure 5 is a view in elevation of the connection between the sheath and discharge nozzle of the dispensing pump.

Referring more particularly to the drawing, 10 designates a gasoline dispensing pump having a discharge nozzle 11 and a valve 12 for controlling the flow of gasoline from the pump. Into the nozzle 11 is threaded at 13 a union 14 which secured one end of a pipe 15 thereto. The other end of said pipe is secured as shown at 16 to a metal connection 17 formed at the inner end of the dispensing hose 18. The pipe 15 is enlarged as disclosed at 19 for a purpose which will be presently explained.

The enlargement 19 is externally threaded to receive the integral threads 20 of the metal sleeve 21 which houses the inner end of the hose. The threads of the sleeve and enlargement are machined so that the sleeve will in effect swivel on said enlargement. The inner end of the sleeve abuts a shoulder 22 formed on the enlargement of the pipe 15 and limits the upward movement of said sleeve towards the nozzle 11.

A sheath generally designated by the numeral 23 is so constructed that it will conform to the configuration of the hose when the same is bent in directing the nozzle 24 of the hose to the fuel tank of a car. This bending causes breakage of the hose where said hose is connected to the metal member 17 and the sheath 23 is employed to protect the hose when in use and to prevent rupture at such connection.

The sheath consists of a plurality of sections 25 pivotally connected together in order that said sheath will bend in accordance with the curvature of the hose. Each section consists of a pair of rings 26 and 27 connected together by a strap 28 located at diametrically opposite points. The free end 29 of the straps are bent laterally as shown at 30 so that they will be sufficiently spaced in parallel relation to receive the ring 26 of a contiguous section. At diametrically opposite points the end ring 26 of a section is provided with perforations 31 to receive pintles 32 which are also inserted in perforations 33 in the free ends 29 of the straps 28 of an adjacent section. This construction provides for a pivotal connection between the sections.

The innermost section 23^a has the ring 27 in close contact with outer end of the sleeve 21 and the free ends 29 are riveted at 36 to the sleeve.

When the hose is used for filling a fuel tank of an automobile it naturally bends or is curved as shown in Fig. 1 and the sheath will bend accordingly due to the pivoted sections while protecting the hose against breakage. The threaded connection 20 between the sleeve 21 and the enlargement 19 permits the sleeve to turn or revolve slightly on the hose thereby eliminating strains of

the sheath and thus providing greater flexibility of said sheath during operation.

It will be appreciated that while I have shown the sleeve as applied to a hose of a gasoline dispensing pump, the sheath may be furnished with the usual garden hose or any kind of rubber tubing that may be placed under a strain to protect the tubing from breakage.

I claim:—

1. A device of the character described comprising a sleeve, a flexible sheath connected to the sleeve and comprising a plurality of sections pivotally connected together, each section being formed of a plurality of rings, and straps connecting said rings together, an end of each strap projecting beyond a ring and pivotally connected to a ring of an adjacent section.

2. A device of the character described comprising an internally threaded sleeve, a sheath formed of a plurality of sections pivotally connected together, each section comprising a pair of annular members, means rigidly connecting the annular members in spaced relation, one of said annular members being provided with perforated projections for pivotally connecting a section to the ring of an adjacent section.

3. A device of the character described comprising an internally threaded sleeve, a sheath formed of a plurality of sections pivotally connected together, each section comprising a pair of annular members, means rigidly connecting the annular members in spaced relation, one of said annular members being provided with perforated projections for pivotally connecting a section to the ring of an adjacent section, a hose connection screwed into the threaded portion of the sleeve and provided with a threaded hollow extension, a hose having an internally threaded hollow member screwed into the threaded hollow extension whereby the connection may swivel on the threaded extension.

4. A device of the character described comprising a sleeve, a flexible sheath rigidly connected with the sleeve and formed of a plurality of sections, each section comprising a plurality of rings, straps connected at diametrically opposite points to the rings and having a portion extending beyond one ring an perforated, said extension being offset from the ring in order to receive the ring of an adjacent section, means received by the perforations in the extension for pivotally connecting the sections together.

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