

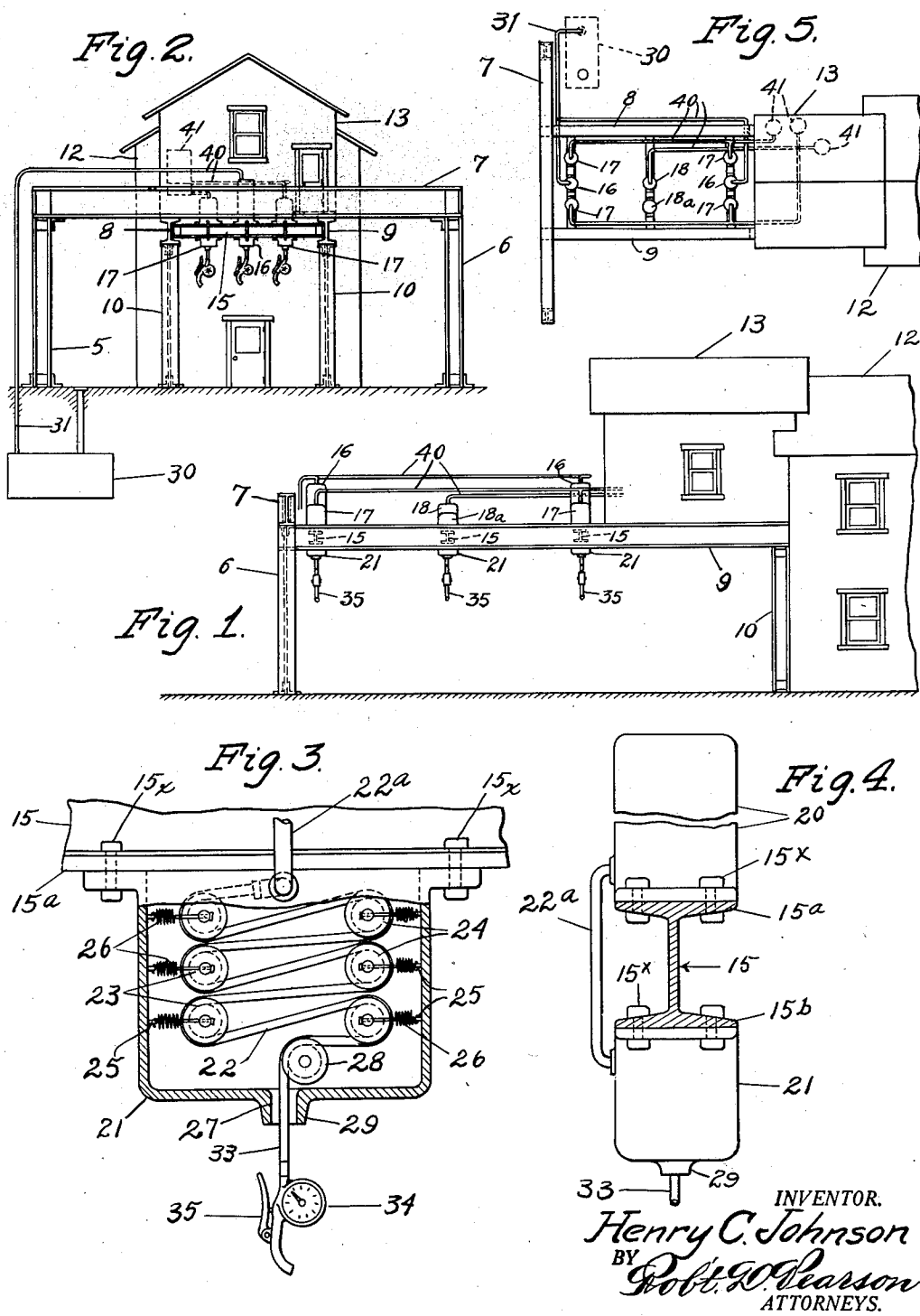
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SERVICE STATION

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SERVICE STATION

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4 Claims. (Cl. 221—67)

This invention relates to service stations and the like, dispensing fluid supplies.

An object of the invention is to provide means whereby a larger number of vehicles may be simultaneously supplied with fluids which are stored in apparatus of the character to which the invention pertains.

Another object of the invention is to provide an apparatus or structure of the kind stated which is of a superior space economizing character. More specifically stated it is a part of this object to provide a combined display, storage and dispensing structure which will have a larger relative amount of unobstructed floor space or ground space therebeneath in order that said space may be used as in a "drive-in" market to furnish more standing room for customers' vehicles.

Still another object of the invention is to provide, to cooperate with other features of the invention, an improved extensible conduit supporting construction to supply fluids to self-propelled vehicles over a large unobstructed area of floor space.

The invention is shown in the drawing embodied, by way of example, in a building structure equipped as an automobile service station.

Other objects, advantages, and features of the invention may hereinafter appear.

Referring to the accompanying drawing, which illustrates what is at present deemed to be a preferred embodiment of the invention,

Fig. 1 is a side elevation of a service station constructed in accordance with the principles of the invention.

Fig. 2 is a front elevation of the structure shown in Fig. 1.

Fig. 3 is a sectional view of the means for extensibly supporting one of the flexible conduits.

Fig. 4 is an elevation of one of the dispensing units.

Fig. 5 is a plan view of a portion of the apparatus.

Referring in detail to the drawing, upon the two front columns 5 and 6 is supported a truss 7 to the under side of which are secured the I-beams 8 and 9 at their front ends. The opposite ends of said I-beams are supported by a rear frame 10 in front of a rear building 12. Said building 12 is utilized to store a portion of the liquids and other supplies to be dispensed and displayed.

Upon the I-beams 8 and 9 is supported a building structure 13 which may also be used to store various liquids to be dispensed.

Secured between and supported by the I-beams 8 and 9 are auxiliary supporting beams 15 which support gasoline dispensing units 16, oil dispensing units 17, and preferably centrally of the structure, a water supply unit 18 and an air supply unit 18a. These dispensing units display the liquids to be dispensed to drivers of approaching vehicles while still in an adjacent roadway.

In Figs. 3 and 4 is shown the construction of a mounting means for these units, all of which may be of a similar design. In Fig. 4 the reservoir 20 is shown mounted on the upper side of the I-beam 15, and the hose housing 21 secured to the lower side of said beam. Within said housing is shown a supply hose 22 which passes around a set of pulleys 23 and around another set of pulleys 24, positioned to the left and right of one another respectively. These pulleys are extensibly anchored to internal casing lugs 25 by means of springs 26. Near the opening 27 of said housing is stationed a guide pulley 28. Around said opening 27 is a guiding lip 29. Pipes 22a connect the flexible conduits 22 with the tanks 18.

In Fig. 2 an underground gas tank 30 is shown which supplies gasoline to the various gas units through a main supply pipe 31.

The portion 33 of the flexible conduit 22, which projects below the opening 27 of the housing, carries a fluid meter 34 and is furnished with a manually operable cut-off valve 35.

Referring to certain improved details, the I-beams 15, with their upper flanges 15a and lower flanges 15b are suited to combine in an advantageous manner with the tanks 20 and housing 21, because they afford flat surfaces against which the tank and housing abut, and bolts or rivets 15c pass through holes in said flanges to secure the tanks 20 and housings 21 in their proper positions.

The piping 40, in front of the supply room or building 13, supplies the fluids being dispensed from the reservoirs 41 to the various dispensing units.

I claim:

1. In a structure for the purpose stated, a transversely extending beam, means to support said beam at its end portions in an elevated position, a tank mounted on said beam in spaced relation to its ends, a flexible conduit communicating with said tank, and means supported by said beam to extensibly support said conduit.

2. In a structure for the purpose stated, supporting means; and a fluid dispensing unit thereby supported in an elevated position, said unit including a fluid supply means, a flexible conduit

communicating with said supply means, a housing for said conduit, a plurality of pulleys within said housing, said conduit being led over said pulleys, and springs whereby said pulleys are yieldingly anchored to said housing.

3. In a structure for the purpose stated, supporting means; and a fluid dispensing unit thereby supported in an elevated position, said unit including a fluid supply means, a flexible conduit communicating with said supply means, a plurality of pulleys arranged in two sets which are spaced apart, said conduit being led alternately over the pulleys of different sets, a support for said sets of pulleys extending in outwardly

spaced relation to them both, and springs having inner ends secured to said pulleys and outer ends anchored to said support.

4. In a structure for the purpose stated, a transversely extending beam, means to support said beam at opposite end portions in an elevated position with a sufficient clearance vertically therebeneath to admit an automobile, and a plurality of dispensing units mounted on said beam at different points along its length, there being flexible dispensing conduits which form part of said units.

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