June 4, 1957 H. G. LEGO 2,794,556

CLOTHES DRIER

Filed Dec. 1, 1954 3 Sheets-Sheet 1

FIG. 1

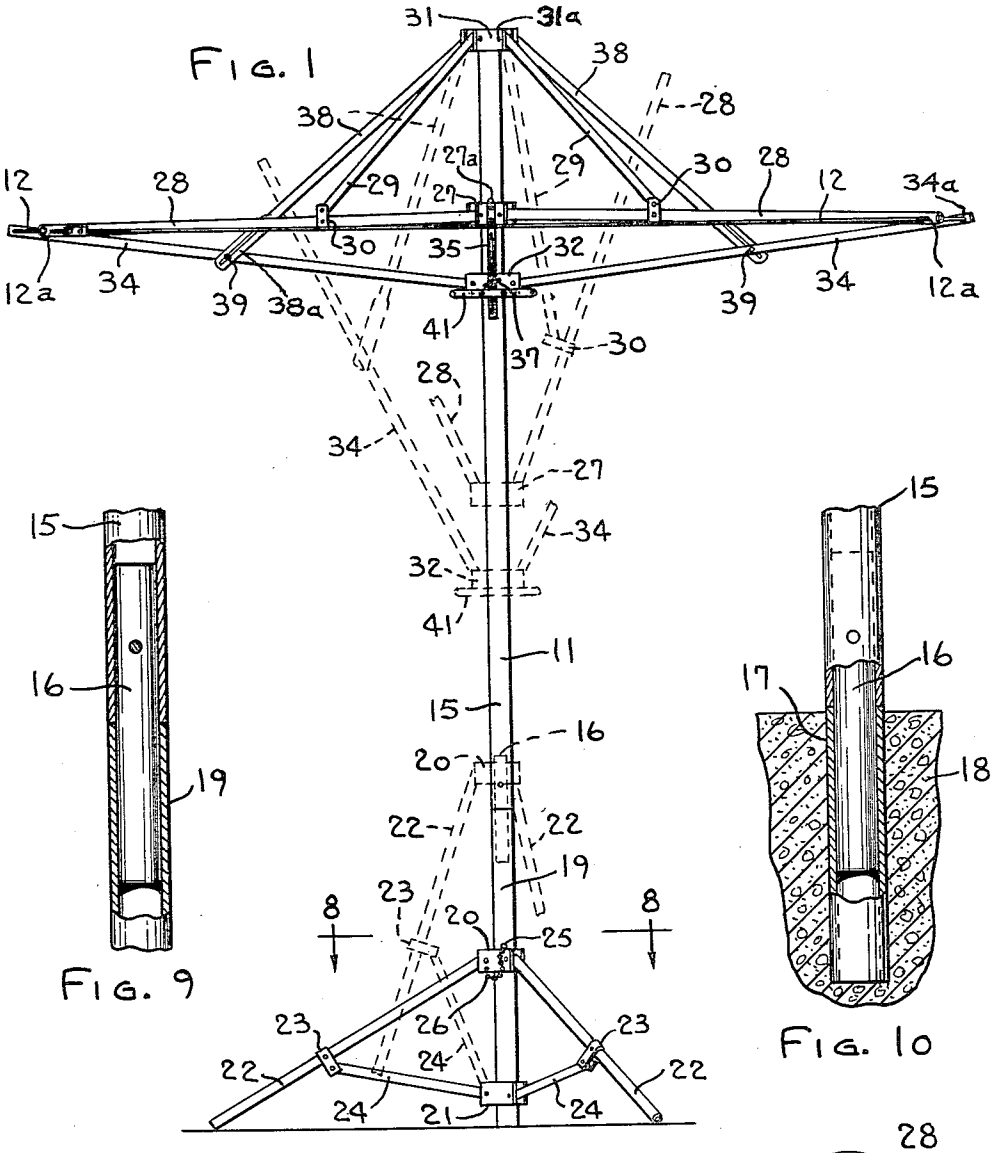


FIG. 9

FIG. 10

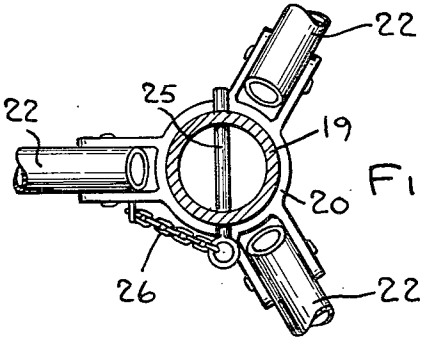


FIG. 8

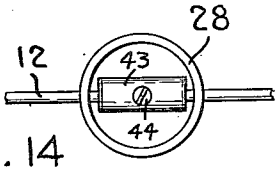


FIG. 14

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June 4, 1957 H. G. LEGO 2,794,556

CLOTHES DRIER

Filed Dec. 1, 1954 3 Sheets-Sheet 2

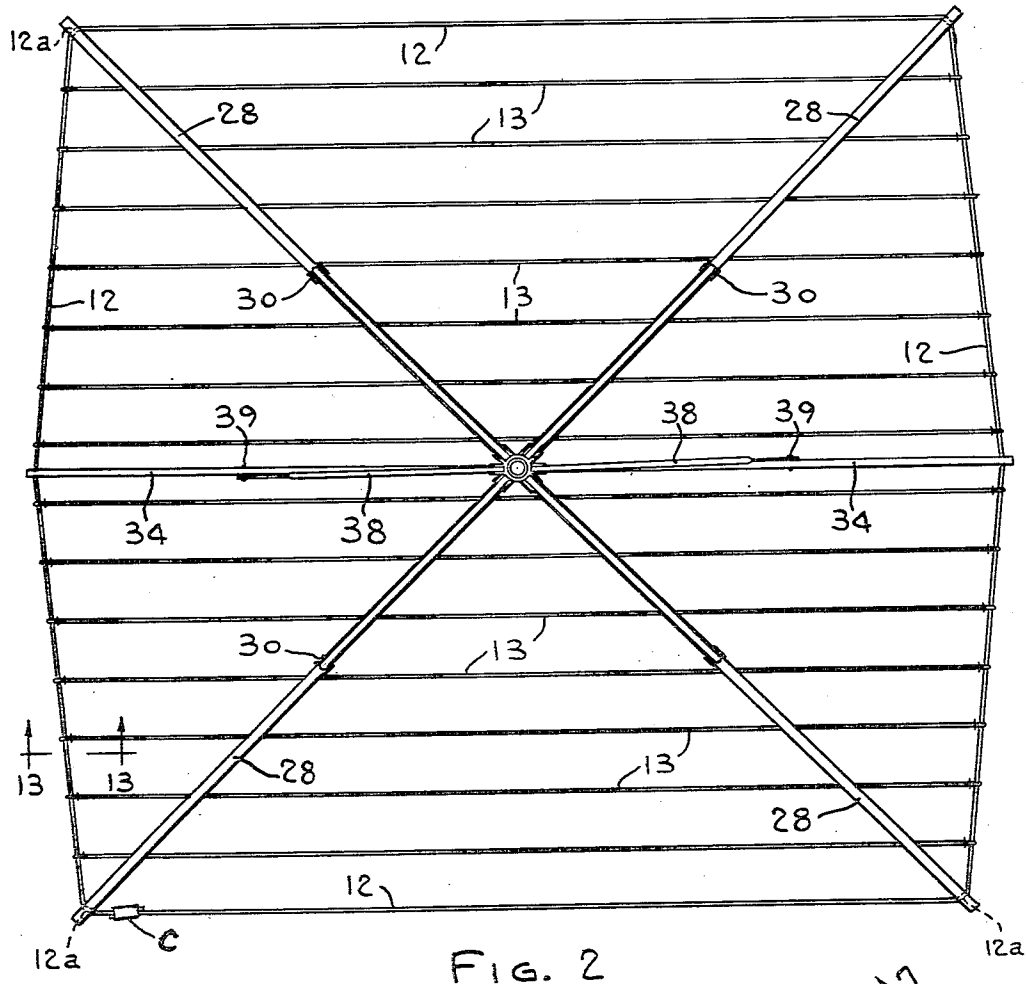


FIG. 2

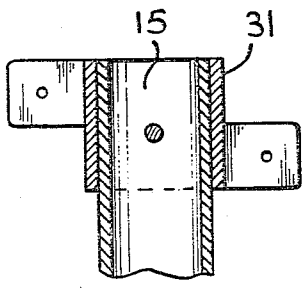


FIG. 7

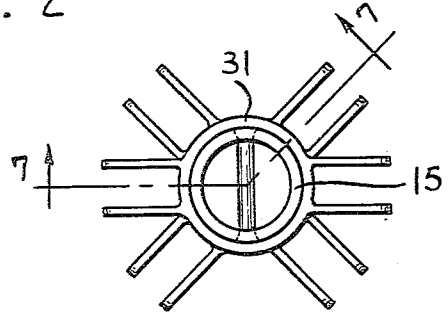


FIG. 6

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June 4, 1957 H. G. LEGO 2,794,556

CLOTHES DRIER

Filed Dec. 1, 1954 3 Sheets-Sheet 3

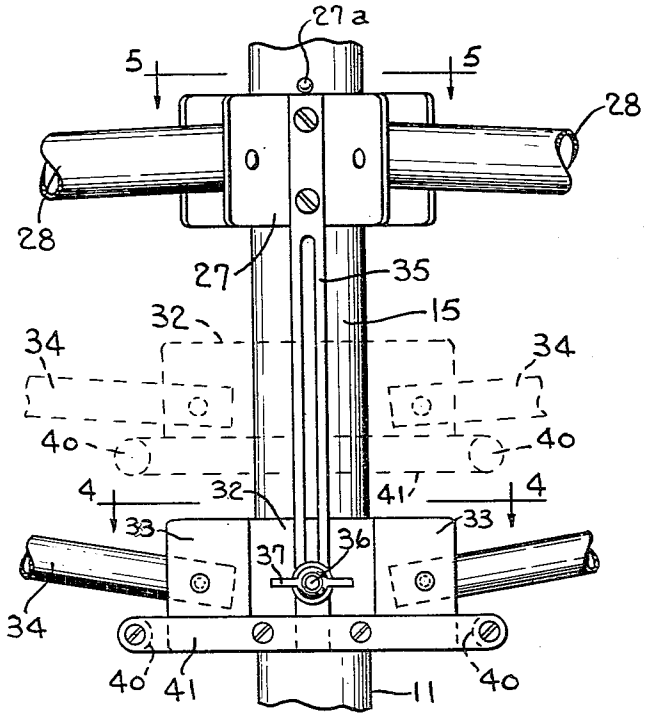


FIG. 3

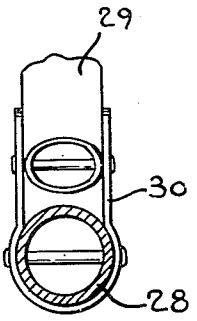


FIG. 11

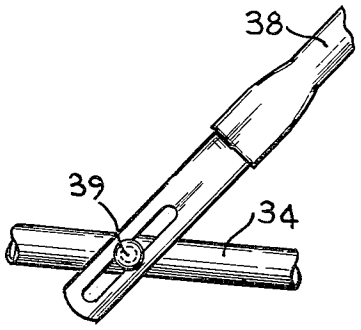
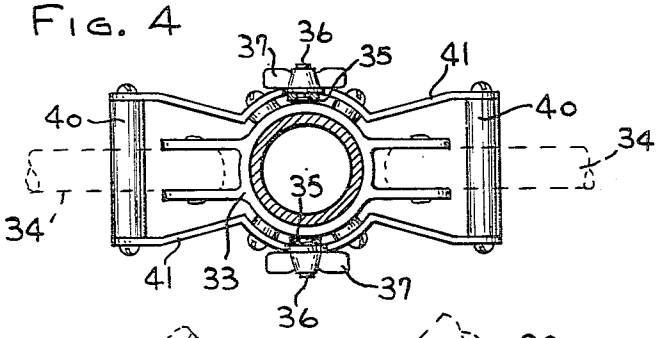


FIG. 12

FIG. 4



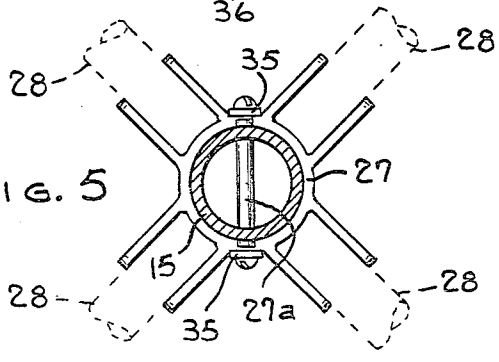


FIG. 5

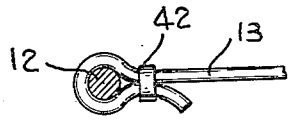


FIG 13

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CLOTHES DRIER

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Application December 1, 1954, Serial No. 472,306

2 Claims. (Cl. 211—178)

The invention relates to clothes driers.

The main object of the invention is to provide a portable collapsible drier which may be used both inside and outside.

A further object of the invention is to provide a rack type drier having a series of clothes lines mounted thereon between tensioned cables.

The invention further consists in the several features hereinafter set forth and more particularly defined by claims at the conclusion hereof.

In the drawings:

Fig. 1 is a side elevation view of a drier embodying the invention set up for inside use;

Fig. 2 is a top plan view of the drier;

Fig. 3 is an enlarged view of parts of the line carrying support;

Fig. 4 is a detailed horizontal sectional view taken on the line 4—4 of Fig. 3;

Fig. 5 is a detailed horizontal sectional view taken on the line 5—5 of Fig. 3;

Fig. 6 is a plan view of the top fitting;

Fig. 7 is a detailed vertical sectional view taken on the broken line 7—7 of Fig. 6;

Fig. 8 is a detailed horizontal sectional view taken on the line 8—8 of Fig. 1;

Fig. 9 is a detailed vertical sectional view showing parts of the standard;

Fig. 10 is a detailed vertical sectional view showing the mounting of the standard for outside use;

Fig. 11 is a detailed view showing one of the brace connections;

Fig. 12 is a detailed view of the limit stop for one of the cable spreaders;

Fig. 13 is an enlarged view of a clothes line anchor;

Fig. 14 is an enlarged end view of a cable corner clamp.

Referring to the drawings, the drier includes a standard **11**, a flexible line carrying cable **12**, clothes lines **13** spanning opposite sections of said cable, a collapsible or foldable supporting means for mounting the cable **12** on the standard, and foldable means mounted on the standard for tensioning the cable and hence the clothes lines.

The standard **11** includes a long pipe **15** having a short pipe or rod **16** pinned to its lower end and adapted for outside use to fit into a socket **17** anchored in a cement block **18** in the ground, and for inside use to fit into an extension pipe section **19** which fits into the top and bottom collars **20** and **21** of a tripod formed by said collars, legs **22** pivotally connected at their upper ends to the collar **20** and pivotally connected intermediate their ends by pivot fittings **23** and braces **24** to the collar **21**. The pipe or rod **16** is free to turn in either the socket **17** or the pipe section **19**. The pipe section **19** acts to extend the height of the standard. The collar **20** in the operative position of the tripod is held to the pipe section **19** by a pin **25** extending through diametrically disposed holes in the pipe **19** and connected by a chain **26** to the collar, said pin limiting the upward movement of the collar relative to the pipe. When not in use, the tripod may be collapsed

or folded up to bring its legs alongside of the collars **20** and **21**, the dotted lines in Fig. 1 showing a partial collapse of the tripod.

The foldable supporting means for mounting the cable **12** on the standard includes an eared collar **27** slidably mounted on the pipe **15**, four arms, in the form of pipes **28**, pivotally mounted in the ears of the collar **27** and brace rods **29** for said arms pivotally connected at one end by fittings **30** to said arms and pivotally connected at their other ends to an eared collar **31** fixed to the top of the standard so that downward sliding movement of the collar **27** on the pipe **15** will collapse the arms as indicated in dotted lines in Fig. 1.

The cable **12** is strung through openings **12***a* in the ends of the arms, and is a continuous cable, the ends of which are suitably joined together. While the cable as strung on the arms **28** may be in a fairly taut condition when said arms are in their extended condition, it has been found desirable to provide an adjustable means for further tensioning the cable. The collar **27** in its upper position engages a stop pin **27***a* in the standard.

The cable tensioning means includes a collar **32** having diametrically disposed pivot ears **33** in which the inner ends of tensioning arms **34** are pivotally mounted, the outer ends of these arms being apertured or slotted at **34***a* to receive the cable **12**. The collar **32** is vertically adjustably mounted relative to the collar **27** by providing slotted bars **35** depending from the collar **27** and threaded studs **36** on the collar **32** working in said slots and carrying thumb nuts **37**. With this arrangement as the collar **32** is moved upwardly relative to the collar **27** from its full line to its dotted line position, shown in Fig. 3, it has the effect of straightening out the arms **34** relative to the cable to thereby act to push the intermediate portion of the cable span between the sets of arms **28** outwardly and thus tension the cable and consequently the clothes lines **13**. In the collapsed condition of the structure, the collar **32** and arms **34** are limited in their movement by stop rods **38** pivotally connected at their upper ends at **31***a* to the collar **31** and slotted at **38***a* at their lower ends to engage pins **39** mounted in intermediate portions of said rods. In the collapsed position of the arms **28** and arms **34** the collar **32** moves down the pipe **15** toward the lower end thereof, and to facilitate carrying it the collar **32** is provided with a pair of oppositely disposed handles formed by hand grips **40** and grip supports **41**.

The clothes lines **13** may be any suitable flexible cord or rope, but as shown are of nylon with their ends looped as shown in Fig. 13 and the ends of the loop secured together by a clinched metal band **42**. With this type of mounting, the lines **13** may be shifted along their supporting cable sections relative to each other to any desired spacing.

The various parts of the structure when folded up or collapsed may be readily packed in a suitable shipping container.

The clothes or other articles to be dried are hung from the lines **13** by clothes pins, hangers, or in any other suitable manner.

The ends of the cable **12** are secured together by a cable clamp C. In order to hold the cable **12** in position relative to the arms **28**, the cable passes through metal sleeves **43** that are disposed in the outer ends of the arms. Each sleeve is clamped to the cable **12** within each army by a set screw **44**.

It will be noted that the arms **28** are diagonally disposed relative to the line carrying frame formed by the flexible cable **12**.

I desire it to be understood that this invention is not to be limited to any particular form or arrangement of parts except in so far as such limitations are included in the claims.

What I claim as my invention is:

1. In a clothes drier, the combination of a standard, a flexible line carrying cable, foldable supporting means for said cable mounted on said standard to provide oppositely disposed sections of cable laterally spaced from said standard, a series of clothes lines strung between said oppositely disposed cable sections, foldable arms having an adjustable mounting on said standard and connected to the mid-portion of said oppositely disposed cable sections and when in operative position acting to tension said cable sections and thereby tension said clothes lines.

2. The clothes drier as defined in claim 1, wherein the

adjustable mounting for the foldable tensioning arms is provided with a pair of oppositely disposed handles.

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