Jan. 15, 1929. 1,698,789

C. C. GILLICAN

CONDENSER COIL

Filed Jan. 14, 1927

Fig. 1.

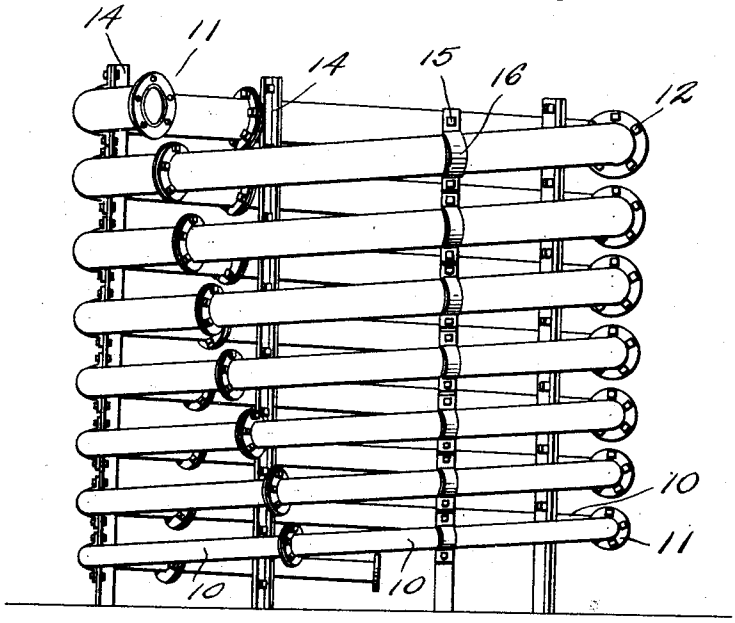
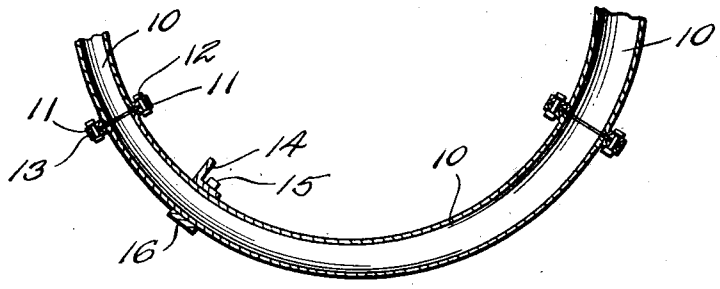


Fig. 2.



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CHARLES C. GILLICAN, OF BRUNSWICK, GEORGIA.

CONDENSER COIL.

Application filed January 14, 1927. Serial No. 161,149.

This invention relates to improvements in condenser coils especially adapted for distilling turpentine, an object being to provide a coil which may be shipped in knocked-down form and readily assembled and set up for use.

Another object of the invention is to provide a condenser coil of sectional formation, with the sections so connected that any section may be removed without disturbing the other sections, and thus permit a damaged section to be replaced without taking down the entire coil or disturbing the other sections.

With the above and other objects in view, the invention further includes the following novel features and details of construction, to be hereinafter more fully described, illustrated in the accompanying drawings and pointed out in the appended claim.

In the drawings:—

Figure 1 is an elevation of a condenser coil constructed in accordance with the invention.

Figure 2 is a fragmentary sectional view.

Referring to the drawings in detail wherein like characters of reference denote corresponding parts, the coil as shown is formed of a number of convolutions, any desired number being employed. As shown, the diameter of the pipe of which the coil is formed increases from the bottom to the top, however, this is not material to the invention.

The coil convolutions are formed of separate sections 10 and each section is provided at its opposite ends with an apertured annular flange 11, the construction being such as to provide an accurate fit between the ends of adjacent sections. The flanges are clamped together by means of bolts 12 which pass through said flanges and through a suitable packing 13 located between the flanges.

Extending vertically within the coil are circumferentially spaced supports 14, preferably formed of angle iron. Extending around the coil sections 10 and having their opposite ends removably secured to the supports 14 as shown at 15, are clamping devices or straps 16. Each coil section is thus independently and separably connected with the standards 14, so that by removing the straps 16 and disconnecting the opposite ends of a section, this section may be removed and a new section replaced without disturbing the remainder of the coil.

In addition, the construction provides means whereby the coil may be shipped in knocked-down condition and thereafter readily assembled and set up for use.

The invention is susceptible of various changes in its form, proportions and minor details of construction and the right is herein reserved to make such changes as properly fall within the scope of the appended claim.

Having described the invention what is claimed is:—

In a condenser coil, each convolution being formed in sections adapted to be arranged in end to end relation, flanges arranged on the ends of each section whereby said sections can be detachably secured together, vertically disposed bars arranged within the coil and equidistantly spaced circumferentially, a strap for each section of each convolution, said strap including an intermediate curved portion embracing said section, and offset end portions adapted to be detachably secured to one of said bars above and below the particular section, whereby each section is separately connected to the adjacent bar.

In testimony whereof I affix my signature.

CHARLES C. GILLICAN.