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COMBINATION TRANSPORTING MEANS FOR BOILERS

Filed March 13, 1922

Fig. 1.

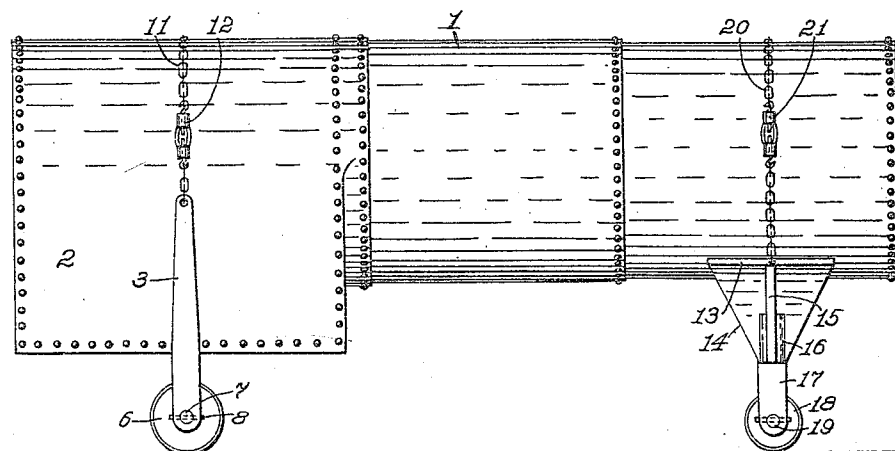
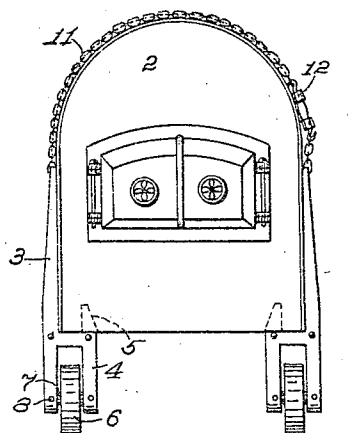


Fig. 2.

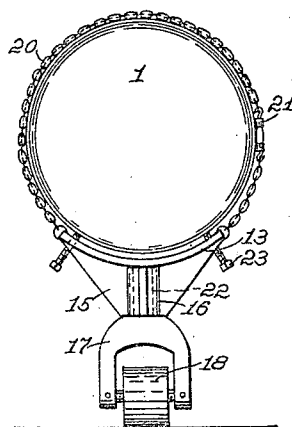


Fig. 3.

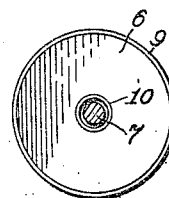


Fig. 4.

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UNITED STATES PATENT OFFICE.

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COMBINATION TRANSPORTING MEANS FOR BOILERS.

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To all whom it may concern:

Be it known that I, RALPH F. WINTERBOTTOM, a citizen of the United States of America, and a resident of Waterloo, Black-hawk County, Iowa, have invented certain new and useful Improvements in Combination Transporting Means for Boilers, of which the following is a specification.

My invention relates to improvements in combination transporting means for boilers, and one object of my improvements is to supply transporting means which can be mounted under and fitted upon parts of a combined boiler and fire-box whereby such means may support and be used in transporting the load from place to place.

Another object of my improvements is to supply adjustable separable and flexible securing connections between said transporting means and the load so that such means may be employed with boilers of different sizes.

These objects I have accomplished by the means which are hereinafter described and claimed, and which are illustrated in the accompanying drawings, in which Fig. 1 is a side elevation of a combination boiler and fire-box as mounted upon my improved means for transportation. Fig. 2 is an end elevation of the fire-box and of the special pair of carrying devices upon which it is mounted, and Fig. 3 is an end elevation of the boiler and of the caster-wheel transporting means therefor. Fig. 4 is an enlarged side elevation of one of the carrying-wheels, with the fixed pintle thereof shown in cross section.

My improved means of transportation comprises strong but simple devices which are adaptable to different sizes of boilers or the like, particularly those equipped with fire-boxes. These devices after the boiler 1 and its fire-box 2 have been lifted by jacks, block and tackle, or other means, have my improved transporting devices placed thereunder to receive the load when the lifting means has been removed.

An arcuate saddle 13 is placed under the rear end of the boiler 1 and has a depending medial vertical socket 16 whose hollow seats a caster spindle 22 projecting upwardly from an arched frame 17. Webs 14 and 15 extend from the socket 16 angularly with relation to each other to and support the outer parts of the saddle 13. The frame

17 has spaced depending members orificed horizontally in line to receive a fixed pintle 19 on which the caster-wheel 18 is rotatably mounted. The numeral 23 denotes adjusting-screws which are passed through threaded openings in the opposite ends of the saddle 13 so that their extremities bear against the superposed boiler 1 whereby the load is properly supported and adjusted upon said saddle. In order to secure this part of the boiler upon said transporting means, chain sections 20 are employed surrounding the boiler, their sections connected for adjustment by a turn-buckle 21, and the extreme ends of the sections linked into holes in the opposite ends of said saddle.

To support the fire-box 2, I supply like transporting devices which are independent or not connected transversely to each other except by means of chain sections 11 and turn-buckle 12 similar to the other chain sections heretofore described. Each of these devices consists of a square arched frame 4 having depending members spaced and connected by means of a pintle 7 secured by pins 8 fixedly, and a carrying-wheel 6 is rotatably mounted on said pintle between said members. A relatively long vertical standard 3 extends upwardly from said frame in line with its outermost depending member and one end of the chain 11 is linked in a terminal hole therein. A short projection 5 likewise extends upwardly from said frame in line with its inner member, and the side-leg of the fire-box is seated between said standards 2 and 5 upon said frame 4. This disposition of the parts prevents sidewise rocking of the frame 4, and these frames may be used on any width of fire-box, not being directly connected together.

The wheels 6 and 18 may be of any desired construction, but as shown in Fig. 4, are made of a tire 9 about a solid wooden wheel 6, the latter being centrally hollowed to receive a metal hub 10 which, in turn, receives the pintle 7.

Having described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. Combination transporting means for boilers, comprising a caster-wheel, a frame in which said caster-wheel is rotatably mounted, a saddle on which said frame is pivotally mounted and removable supporting one end of a horizontal boiler which has a

fire-box at its opposite end, chain sections passed around the boiler and end-connected to opposite ends of said saddle, an adjustable separable linking-connection between the
5 chain sections, screws mounted on opposite ends of said saddle to engage the boiler adjustingly, independent clips mounted under and fitting depending opposite sides of the fire-box, carrying wheels mounted on the
10 clips and means for securing said clips in place releasably.

2. Combination transporting means for boilers, comprising a caster-wheel, means for mounting it removably under one end
15 of a boiler which has a fire-box at its opposite end, a pair of independent carrying-wheels under opposite sides of the fire-box

for adjustments of lateral separation to conform to the width of the fire-box, frames in which said carrying-wheels are rotatably
20 mounted, each consisting of an arched body having laterally spaced standards of different heights to receive therebetween and releasably fit about opposite depending walls of the fire-box, chain-sections end-connected
25 to the tops of the outer standards of said frames and passed around the upper part of the fire-box, and a separable adjustable linking-connection between said chain sections.
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Signed at Waterloo, Iowa, this 13th day of Feb., 1922.

RALPH F. WINTERBOTTOM.