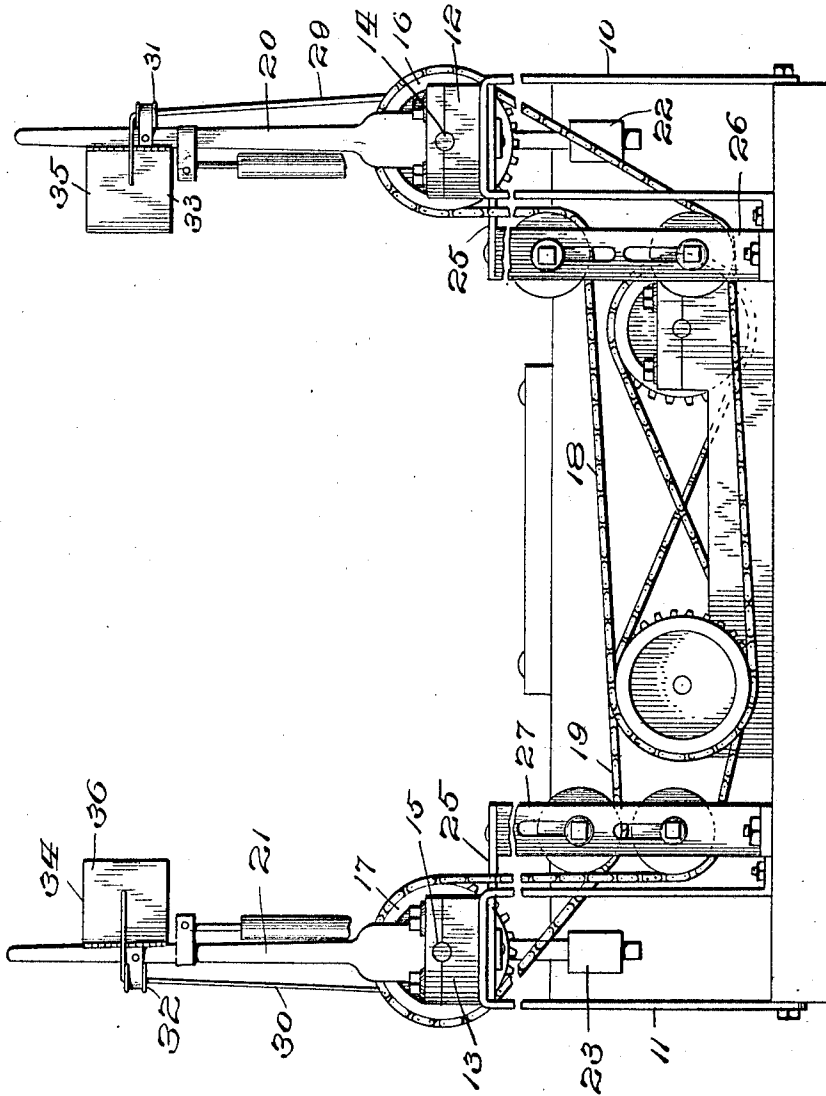


A. LICHTFUSS.
DRAWBRIDGE GATE.
APPLICATION FILED JUNE 3, 1912.

1,055,194.

Patented Mar. 4, 1913.
2 SHEETS—SHEET 1.

Fig. 1.



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August Lichtfuss,

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Witnesses

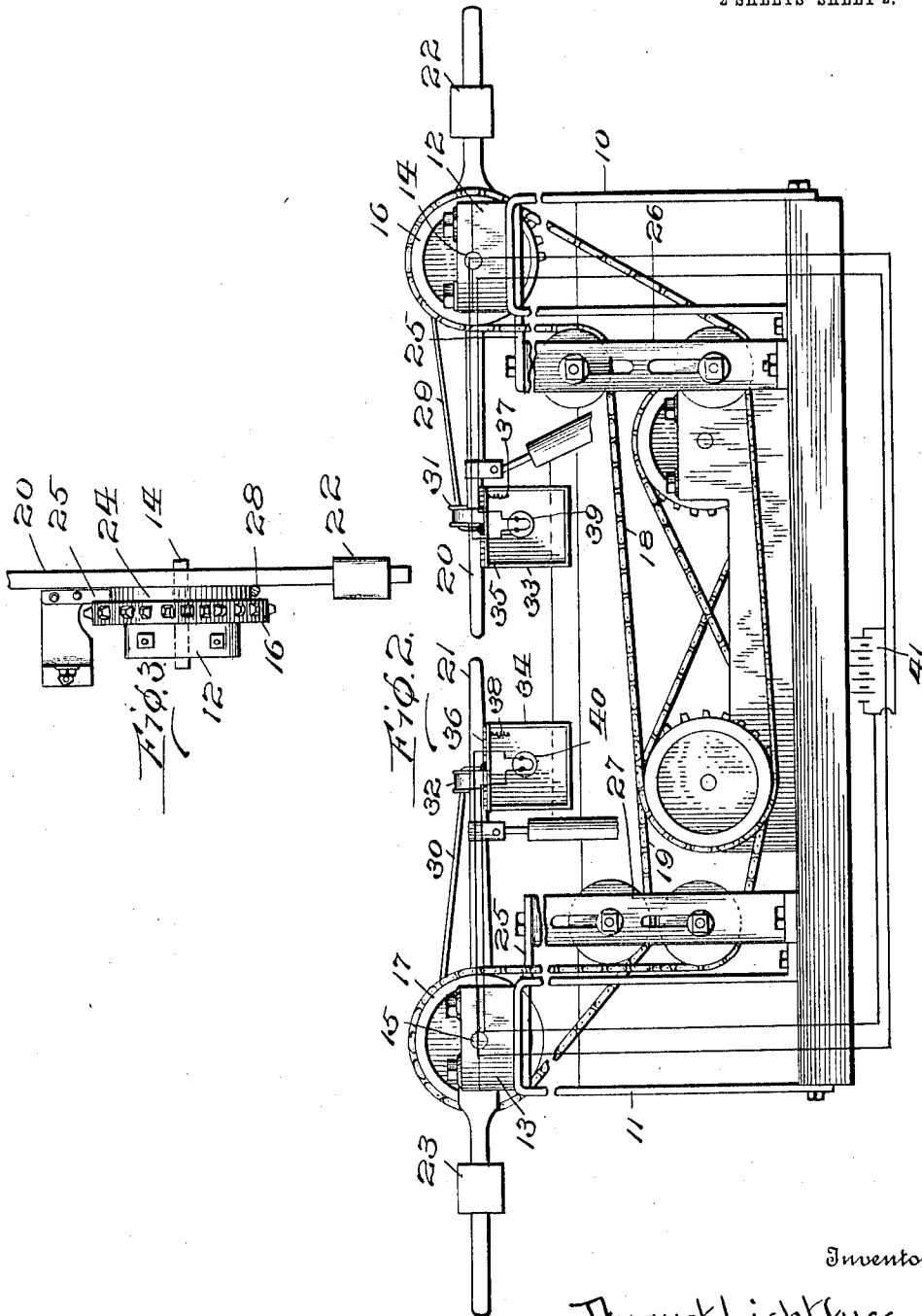
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UNITED STATES PATENT OFFICE.

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DRAWBRIDGE-GATE.

1,055,194.

Specification of Letters Patent.

Patented Mar. 4, 1913.

Application filed June 3, 1912. Serial No. 701,363.

To all whom it may concern:

Be it known that I, AUGUST LICHTFUSS, a citizen of the United States, residing at Oshkosh, in the county of Winnebago and State of Wisconsin, have invented certain new and useful Improvements in Drawbridge-Gates; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to drawbridge gates and has for an object to provide a gate carrying a light thereon with improved means for displaying the light when the bridge is closed and obscuring the light when the gate is open.

A further object of the invention is to provide a drawbridge gate having boxes mounted thereon with covers carried by the boxes and lights in the boxes and with improved means for opening and closing the covers as the gate is closed and opened.

With these and other objects in view the invention comprises certain novel constructions, combinations and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawings: Figure 1 is a view of the improved gate open. Fig. 2 is a view of the improved gate closed with the light boxes open displaying the lights. Fig. 3 is a detail top plan view.

Like characters of reference indicate corresponding parts throughout the several views.

The improved gate which forms the subject matter of this application comprises a pair of upright frames 10 and 11 having journal boxes 12 and 13 upon their tops respectively, such journal boxes respectively journaling shafts 14 and 15. The shafts 14 and 15 are provided with sprockets 16 and 17 over which sprocket chains 18 and 19 operate to move the shafts 14 and 15 within their boxes. The shafts 14 and 15 carry respectively gate bars 20 and 21 provided preferably with counterweights 22 and 23 to assist in opening and closing the same. The arms 20 and 21 are carried rigidly upon the shafts 14 and 15 and are opened and closed by the rotary movement of such shafts in their boxes. Adjacent the sprock-

ets 16 and 17 disks 24 are located, held against movement in any approved manner, as by the bars 25 extending from uprights 26 and 27. The disks 24 are provided with eyes 28 into which cables 29 and 30 are secured, said cables running respectively along the arms 20 and 21 and through guides 31 and 32.

Upon the arms 20 and 21 boxes 33 and 34 are mounted having covers 35 and 36 hinged thereon and held normally closed by springs 37 and 38. The cables 29 and 30 connect with the covers 35 and 36 so that when the arms are turned downwardly to closed position as shown at Fig. 2, the disks 24 take up enough of said cables 29 and 30 to cause the covers 35 and 36 to open against the tension of the springs 37 and 38. Within the boxes 33 and 34 lights 39 and 40 are located, connected in circuit with a source of electrical energy shown conventionally at 41, so that said lights are lighted within said boxes and 34 but are obscured when the arms are open, as shown at Fig. 1, by the closing of the cover but are visible when the gates are closed as at Fig. 2 when the covers are open.

It will be apparent therefore that when the gates are open as at Fig. 1 the covers of the light boxes are closed and no lights are visible. When however through the medium of the sprocket chains 18 and 19 and the anchoring of the end of the cables 29 and 30 the covers of the light boxes are swung open as the arms descend so that when the arms reach closed position the interior of the box and the light contained therein is fully revealed.

I claim:—

1. A drawbridge gate comprising a fixed disk, a shaft rotating in the disk, an arm carried by the shaft, means to rotate the shaft, a box carried by the arm, a cover hinged to the box, and a cable having one end wound about the disk and its opposite end secured to the cover of the box.

2. A drawbridge gate comprising a fixed disk, a shaft rotating in the disk, an arm carried by the shaft, a light box carried by the arm, a cover carried by the box, a cable having one end wound about the disk and its opposite end secured to the cover, and means to rotate the shaft and move the arm.

3. A drawbridge gate comprising a fixed

disk, a shaft rotating concentrically of the
disk, an arm carried by the shaft, a light
box depending below the arm, a cover
hinged to the side of the box, a cable having
5 one end wound about the disk and the other
end secured to the cover of the box, and
means to rotate the shaft. ♦

In testimony whereof I affix my signature
in presence of two witnesses.

AUGUST LICHTFUSS.

Witnesses:

CLARENCE GERHARD,
CHAS. OELLERICH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
