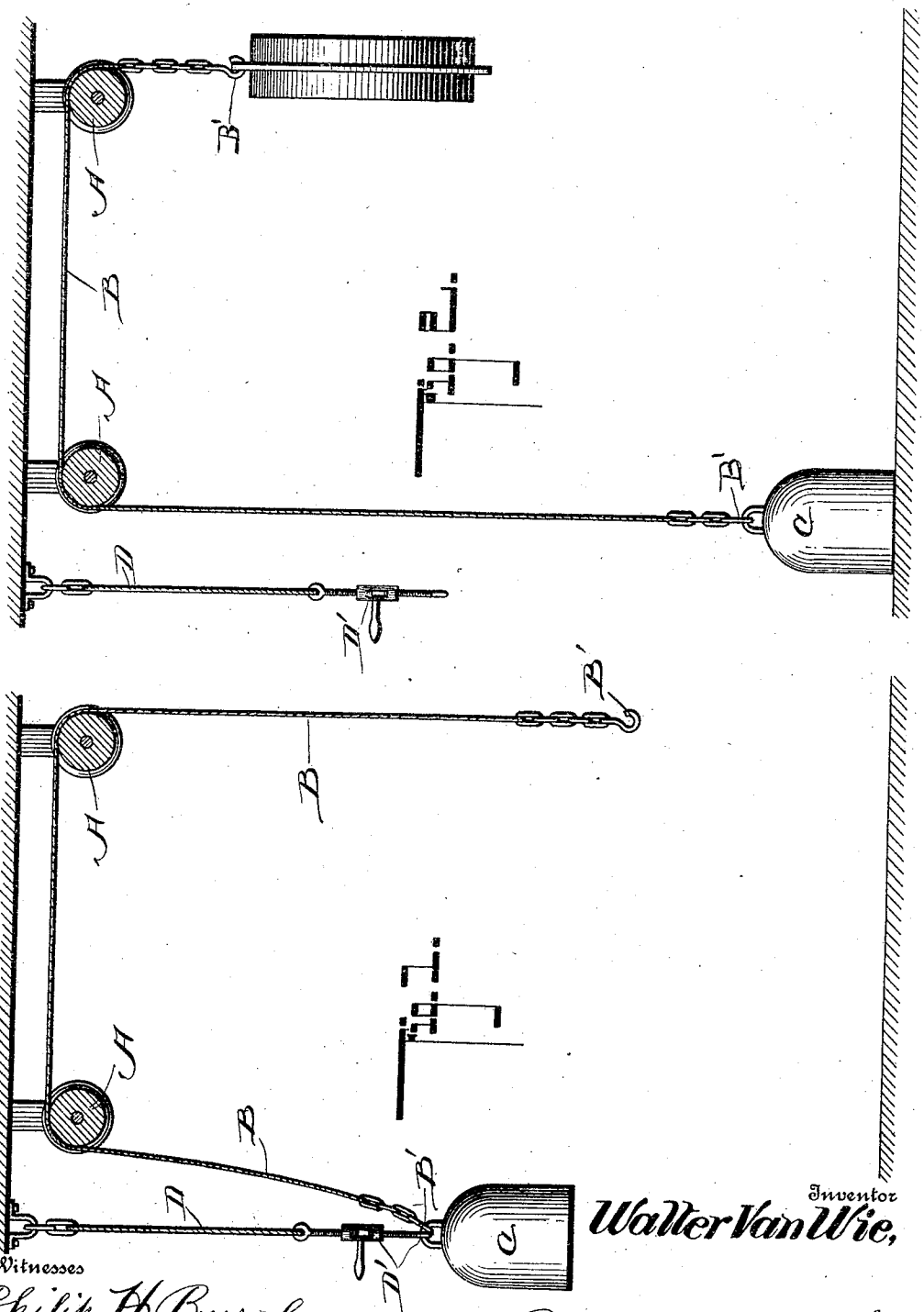
No. 893,678. PATENTED JULY 21, 1908.

W. VAN WIE.

COUNTERBALANCE HOIST.

APPLICATION FILED NOV. 7, 1907.



Inventor

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WALTER VAN WIE, OF OAKLAND, CALIFORNIA.

COUNTERBALANCE-HOIST.

No. 893,678. Specification of Letters Patent. Patented July 21, 1908.

Application filed November 7, 1907. Serial No. 401,174.

To all whom it may concern:

Be it known that I, WALTER VAN WIE, a citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented a new and useful Improvement in Counterbalance-Hoists, of which the following is a specification.

This invention relates to counter balance hoists for use in machine shops and is especially designed for lifting heavy castings into position upon a lathe and returning the finished casting from the lathe to the floor or other platform.

The invention consists of the novel features of construction hereinafter described, pointed out in the claims and shown in the accompanying drawings, in which

Figure 1 is a side elevation showing the device with counterweight held suspended. Fig. 2 is a side elevation showing a casting lifted from the floor.

In constructing the device, I employ two grooved pulleys A over which runs a suitable cable B provided with end hooks B′. A counterweight C is also provided, and in addition I suspend from the ceiling a cable D provided at its lower end with a turn buckle and hooked portion D′.

The operation of the parts is as follows: A counterweight C of the desired weight is hooked to one of the hooks B′ and is then drawn upwardly by pulling down the opposite end portion of the cable B and the other hook B′ is engaged with the casting. By releasing the cable the counterweight will lift the casting to the desired height so that it can be swung into position. When the casting has been turned or finished it is again connected to its hook B′ and lowered, being either aided by a slight downward pull or by the substitution of a counterweight of less mass. When the casting has been lowered the turn buckle D′ is hooked to the counterweight and the casting can then be removed without the counterweight falling. The counterweight can remain suspended or may be released and permitted to fall when another casting has been secured in place of the one removed. By employing the turn buckle D′ the hooks may be relieved of strain by adjusting the length of the cable D of which the turn buckle forms a part.

What I claim is:

1. A device of the kind described comprising two overhead pulleys, a cable running over said pulleys having hooks at each end, a counterweight detachably connected to one of said hooks, and a suspended cable detachably connected to the counterweight and holding the same in a suspended position.

2. A hoisting device of the kind described comprising overhead pulleys, a cable running over said pulleys, a counterweight, means for connecting the counterweight to the cable, a fixed suspended cable, and means for shortening said suspended cable, as and for the purpose set forth.

WALTER VAN WIE.

Witnesses:

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