

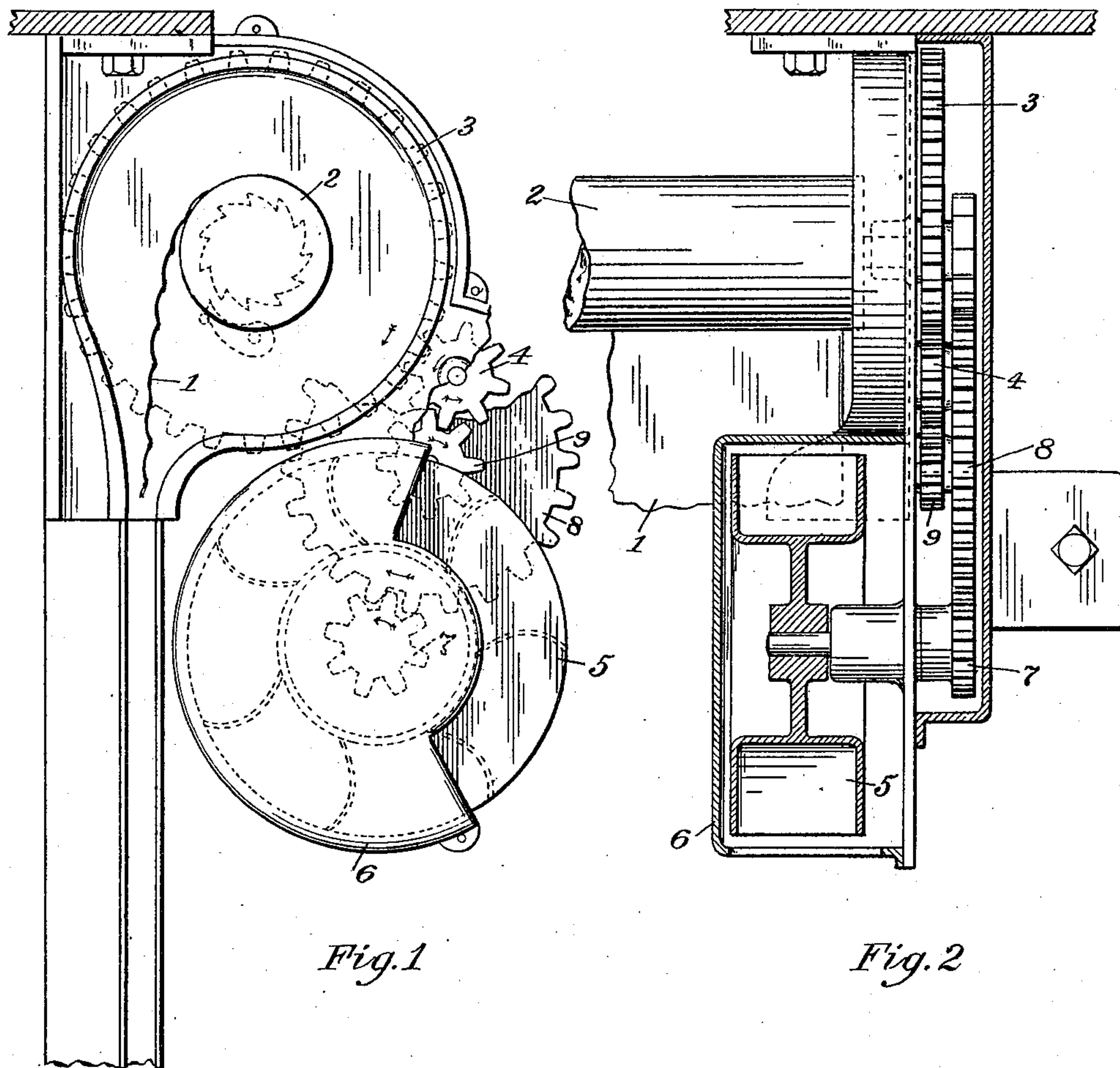
No. 685,480.

Patented Oct. 29, 1901.

W. R. KINNEAR.
FIREPROOF BLIND.

(Application filed Sept. 24, 1900.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM RAYMOND KINNEAR, OF COLUMBUS, OHIO.

FIREPROOF BLIND.

SPECIFICATION forming part of Letters Patent No. 685,480, dated October 29, 1901.

Application filed September 24, 1900. Serial No. 30,984. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM RAYMOND KINNEAR, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Fireproof Blinds; 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.

The object of this invention is to provide means whereby fireproof blinds can be raised when needful to allow the throwing of water into the building.

In my drawings I show a rolling blind or curtain and my present invention adapted thereto.

My invention resides in a bladed wheel, with gearing between the shaft thereof and a curtain or blind roller, said wheel adapted to be driven by the stream of water from a fireman's hose to turn the roller and wind up the blind.

In the drawings referred to, Figure 1 is a side view looking toward the left of Fig. 2, and Fig. 2 is a front view, partially in section.

In the views, 1 designates the blind, and 2 the roller to which the blind is attached and upon which it is rolled. On one end of the shaft of the roller 2 is a large gear-wheel 3, that is engaged by a small pinion 4. Journaled near the same end of the roller is a bladed wheel 5, having its inner side inclosed with a casing 6, so that a part only of the wheel is exposed at the front or outer side. Fixed on the shaft of the bladed wheel 5 is a pinion 7. Journaled between the pinion 4 and the pinion 7 is a large gear 8, having on its shaft a small pinion 9, so that the pinion 9 can mesh with the pinion 4 and the large gear 8 mesh with the pinion 7 on the bladed wheel. Now when the bladed wheel is impinged by an upturned stream of water from a fireman's hose it is driven and its motion imparted to the blind-roller, thus winding up the blind.

In practice the fire-resisting blind will be normally wound up and so held by a readily-fusible device. When fire takes place either within or dangerously near the building, the blinds will drop to close the windows. If the fire be outside the building, there will be of course no occasion for raising the blinds, and the blinds will subserve their function of excluding fire and sparks and also prevent the glass panes of the window from being broken by heat, falling timber, bricks, &c.; but if the fire occurs within the building it will be expedient or necessary to throw water into the building; hence the reason for my present invention. It is also to be observed that it will be necessary to provide means to automatically catch and hold the blind up after it is raised by the stream from the fireman's hose, and in putting up my described blinds I provide such device.

What I claim, and desire to secure by Letters Patent, is—

1. In a window-opening, the combination of a fire-resisting curtain, a roller therefor, a bladed wheel adapted to be driven by a stream of water from a fireman's hose, gearing between the shaft of the bladed wheel permitting the wheel to be driven by the action of a stream of water on the blades at the outer side of said wheel to raise said curtain, substantially as described.

2. In a window-opening, the combination of a fire-resisting curtain, a roller therefor, a bladed wheel adapted to be driven by a stream of water from a fireman's hose, a casing partially inclosing said bladed wheel, and gearing intermediate of the bladed wheel, and the blind-roller for transferring the motion of the bladed wheel to the blind-roller, substantially as described.

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

WILLIAM RAYMOND KINNEAR.

Witnesses:

G. W. ALFRED,
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