

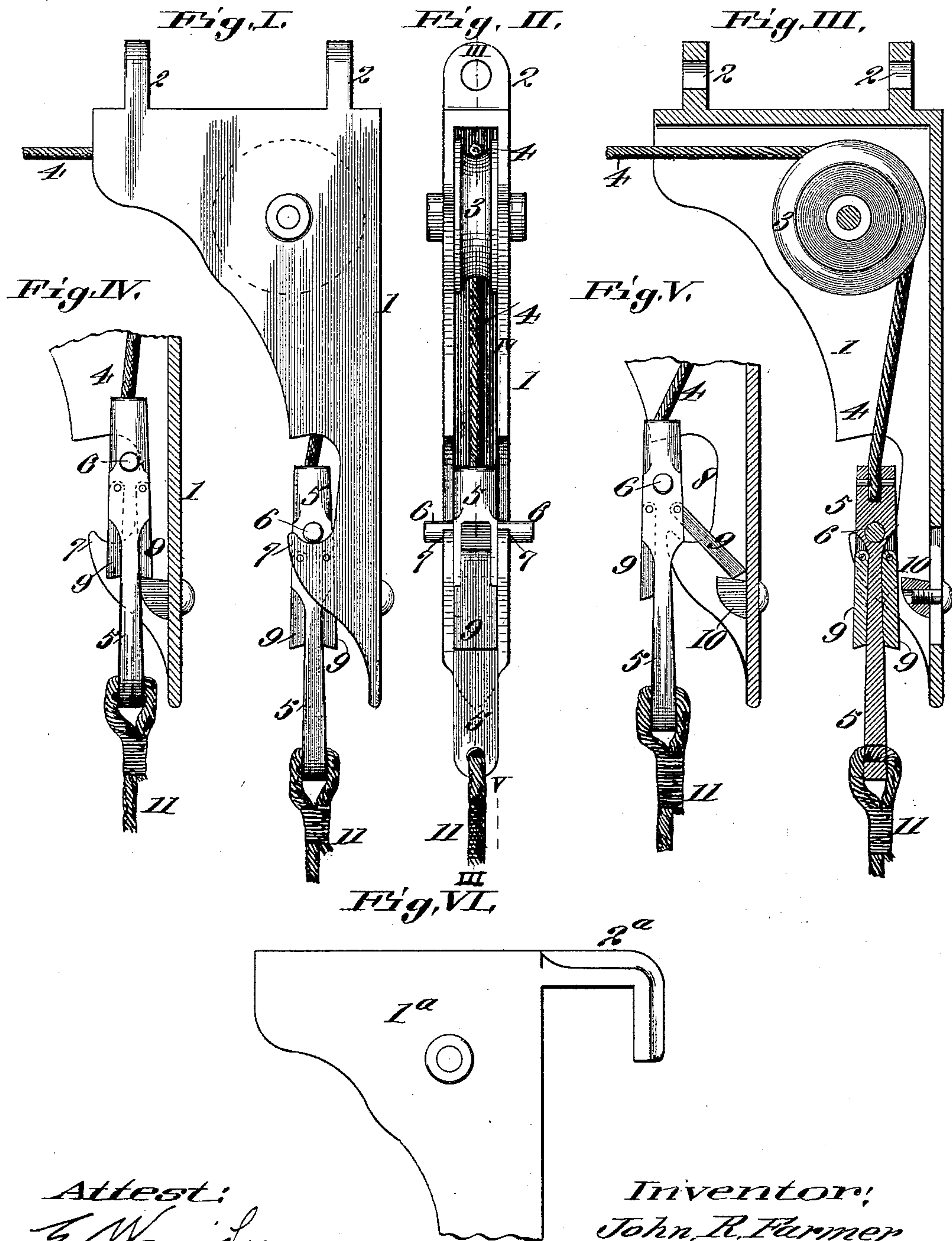
No. 632,558.

Patented Sept. 5, 1899.

J. R. FARMER.  
SUSPENDING DEVICE.

(Application filed June 12, 1899.)

(No Model.)



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# UNITED STATES PATENT OFFICE.

JOHN R. FARMER, OF ST. LOUIS, MISSOURI, ASSIGNOR OF THREE-FOURTHS  
TO ADOLPH BOETTLER, HENRY F. W. RUHE, AND DANIEL H. LOHSE,  
OF SAME PLACE.

## SUSPENDING DEVICE.

SPECIFICATION forming part of Letters Patent No. 632,558, dated September 5, 1899.

Application filed June 12, 1899. Serial No. 720,323. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN R. FARMER, a citizen of the United States, residing at the city of St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Suspending Devices, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to devices for suspending objects of any nature which may be desired to be hung at a distance from the ground or floor of a building.

My invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Figure I is a view in side elevation of the device. Fig. II is a view in front elevation. Fig. III is a vertical sectional view taken on the line III III, Fig. II. Fig. IV is a vertical sectional view taken on the line IV V, Fig. II, the dog-carrier being shown elevated into the position assumed immediately before the release of such carrier from the hanger. Fig. V is a sectional view taken on the line IV V, Fig. II, showing the parts in the position assumed as the dog-carrier is being lowered. Fig. VI is a detail view of the upper end of the hanger, showing a modified form of the means of support.

1 designates a hanger designed to be supported at an elevation. This hanger may be supported by ears 2, (see Figs. I, II, and III,) or it may be provided with a hook 2<sup>a</sup>, (see Fig. IV,) adapted to be placed over a pole or other object. The ears 2 are adapted to receive a rod or wire passed therethrough.

Mounted in the hanger is a pulley 3, that receives a pull-rope 4, that may lead to any convenient location, where it may be grasped to control its travel on the pulley 3. Connected to the rope 4 is a dog-carrier 5, provided with a transverse pin 6.

The hanger 1 is provided with side walls having hooks 7 formed thereon, adapted to receive the transverse pin 6 of the dog-carrier when the said carrier is in elevated position. The side walls are recessed above the hooks 7, forming pockets 8, in which the pin 6 is adapted to travel as the dog-carrier is drawn upwardly.

9 designates dogs pivotally connected to the dog-carrier 5, so that their lower free ends are arranged to hang suspended against the sides of the carrier.

10 is a catch located inside of the hanger 1, near its lower end, adapted to receive one of the dogs 9 when the carrier 5 is elevated into the position seen in Fig. IV.

11 is a suspending-rope connected to the lower end of the dog-carrier, to which the object to be suspended is connected.

In the practical use of this device its operation is as follows: The object to be suspended is connected to the rope 11, and it is elevated by drawing upon the pull-rope 4 to raise the dog-carrier to the position seen in Figs. I, II, and III, carrying the transverse pin 6 to a seat in the hooks 7. As the dog-carrier is brought into contact with the lower end of the hanger 1 the transverse pin 6 comes in contact with the curved or inclined edges of the hanger-walls, and the said carrier is caused to swing into such position that the transverse pin will lie crosswise of the hanger and one of the dogs 9 will be placed at the rear of the carrier, which positions of the parts are maintained when the transverse pin is seated in the hooks 7. The parts are designed to remain in the positions stated with the object held suspended until such time as it is desired to lower the object. To lower the object, the pull-rope 4 is drawn upon, raising the dog-carrier until the inner dog 9 has been raised to the position seen in Fig. IV, when the lower free end of such dog will swing over onto the catch 10. The pull-rope 4 is then slackened and the dog 9, resting upon the catch 10, serves as a lever to throw the dog-carrier outwardly, (see Fig. V,) carrying the transverse pin 6 beyond a vertical line from the ends of the hooks 7, thereby freeing the dog-carrier from any obstruction and permitting the object to be lowered on the slackening of the pull-rope.

This device is of great utility and efficiency for use in suspending various articles, the form shown in Figs. I to III, inclusive, being particularly designed for use in suspending electric-arc lamps, while the form of hanger shown in Fig. VI is designed for connection to the suspending-poles of meat-racks in

butcher-shops, where the device may be used in suspending heavy pieces of meat.

I claim as my invention—

1. In a suspending device, the combination  
5 of a hanger provided with a hook, a pulley, a pull-rope, a dog-carrier connected to said rope, a transverse pin in said dog-carrier adapted to seat in said hook, a dog pivoted to said carrier, and a catch on said hanger  
10 adapted to be engaged by said dog, whereby said carrier may be displaced, substantially as described.

2. In a suspending device, the combination

of a hanger provided with a hook, a pulley mounted in said hanger, a pull-rope, a dog- 15 carrier connected to said pull-rope, a pair of dogs pivoted to said carrier, a transverse pin in said carrier adapted to seat in said hook, and a catch on said hanger adapted to receive one of said dogs when the dog-carrier is ele- 20 vated, substantially as described.

JOHN R. FARMER.

In presence of—

E. S. KNIGHT,

N. V. ALEXANDER.