

No. 763,126.

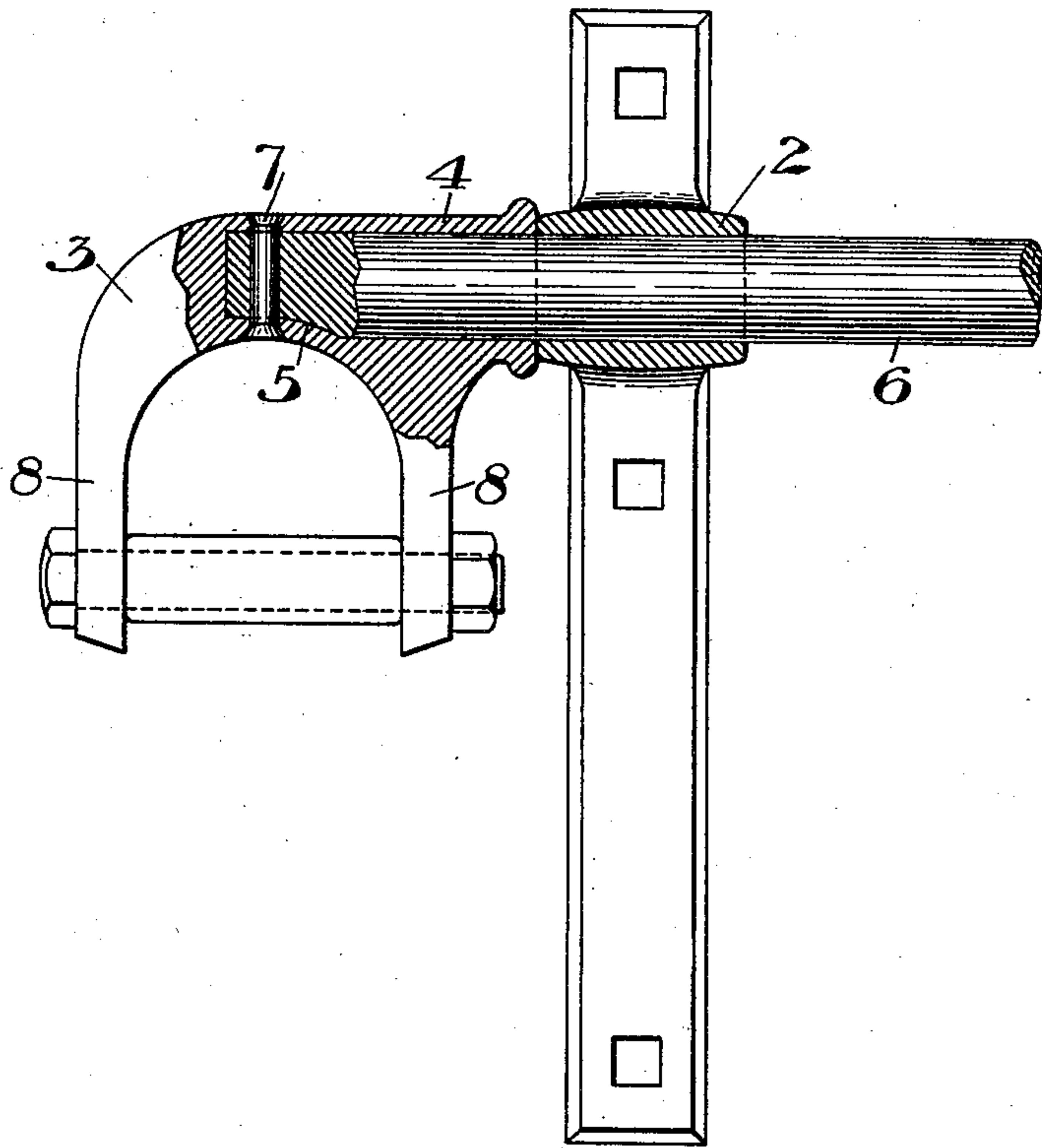
PATENTED JUNE 21, 1904.

H. C. SWAN.

SPRING SHACKLE FOR VEHICLES.

APPLICATION FILED NOV. 23, 1903.

NO MODEL.



WITNESSES

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UNITED STATES PATENT OFFICE.

HENRY C. SWAN, OF CLEVELAND, OHIO.

SPRING-SHACKLE FOR VEHICLES.

SPECIFICATION forming part of Letters Patent No. 763,126, dated June 21, 1904.

Application filed November 23, 1903. Serial No. 182,234. (No model.)

To all whom it may concern:

Be it known that I, HENRY C. SWAN, of Cleveland, Cuyahoga county, Ohio, have invented a new and useful Spring-Shackle for Vehicles, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming part of this specification, in which the figure is a top plan view, partly broken away, showing my improved shackle.

My invention relates to the spring-shackles employed in connection with the springs of vehicles, and is designed to cheapen and improve their construction. Heretofore these shackles have usually been made of wrought-iron or of cast metal in the form of my Patent No. 597,865, of January 25, 1898. The construction shown in this patent while cheaper and simpler than the wrought-iron shackle is formed of two separate parts, with a joint along the intermediate part of the shackle-body.

My present invention further simplifies and improves the construction and enables the shackle to be cast in one piece.

In the preferred form shown in the drawing, 2 represents the usual box or bearing for the equalizer-rod, this bearing lying on the top of a perch and axle of the ordinary side spring-gear. The shackle 3 is cast in one integral piece of U shape and is formed at one side with a projecting hub or sleeve 4, having a hole, preferably of cylindrical form, with its end portion flattened and curved, as shown at 5, over the central portion of the shackle-opening.

The equalizer-rod 6 is cut away on the under side at its end and is then driven or pressed into the shackle, with its cut-away end

fitting on the curved flat wall 5 in the hole in the shackle-sleeve. To prevent withdrawal of the shaft or equalizer-rod, a rivet 7 is passed through its end and through the shackle-body.

The legs 8 8 of the shackle are cast integral with the body, and the spring connection may be of any desired form.

The shackle operates in the usual manner, the equalizing-rods performing their usual functions.

The advantages of my invention result from the cheapness and simplicity of the device, its formation in one piece, and its consequent strength.

Variations may be made in the form and size of the shackle and the rod connection without departing from my invention.

I claim—

1. In a spring-shackle, a hub with integral legs projecting at right angles thereto and arranged to receive the spring between their outer ends, the hub having a hole or recess with a closed end and an angular portion, and an equalizing-rod having an angular end portion and secured within the hole; substantially as described.

2. A spring-shackle cast in one piece with a hole or recess having a flat wall at one side of its inner end, an equalizing-rod arranged to fit in the recess with a flattened face arranged to fit the wall of the hole, and a rivet securing the rod in position; substantially as described.

In testimony whereof I have hereunto set my hand.

HENRY C. SWAN.

Witnesses:

EMIL W. JAYTE,
ERICH W. KATH.