

No. 871,574.

PATENTED NOV. 19, 1907.

M. H. DORGAN.  
VEHICLE WASHER.

APPLICATION FILED MAR. 19, 1906.

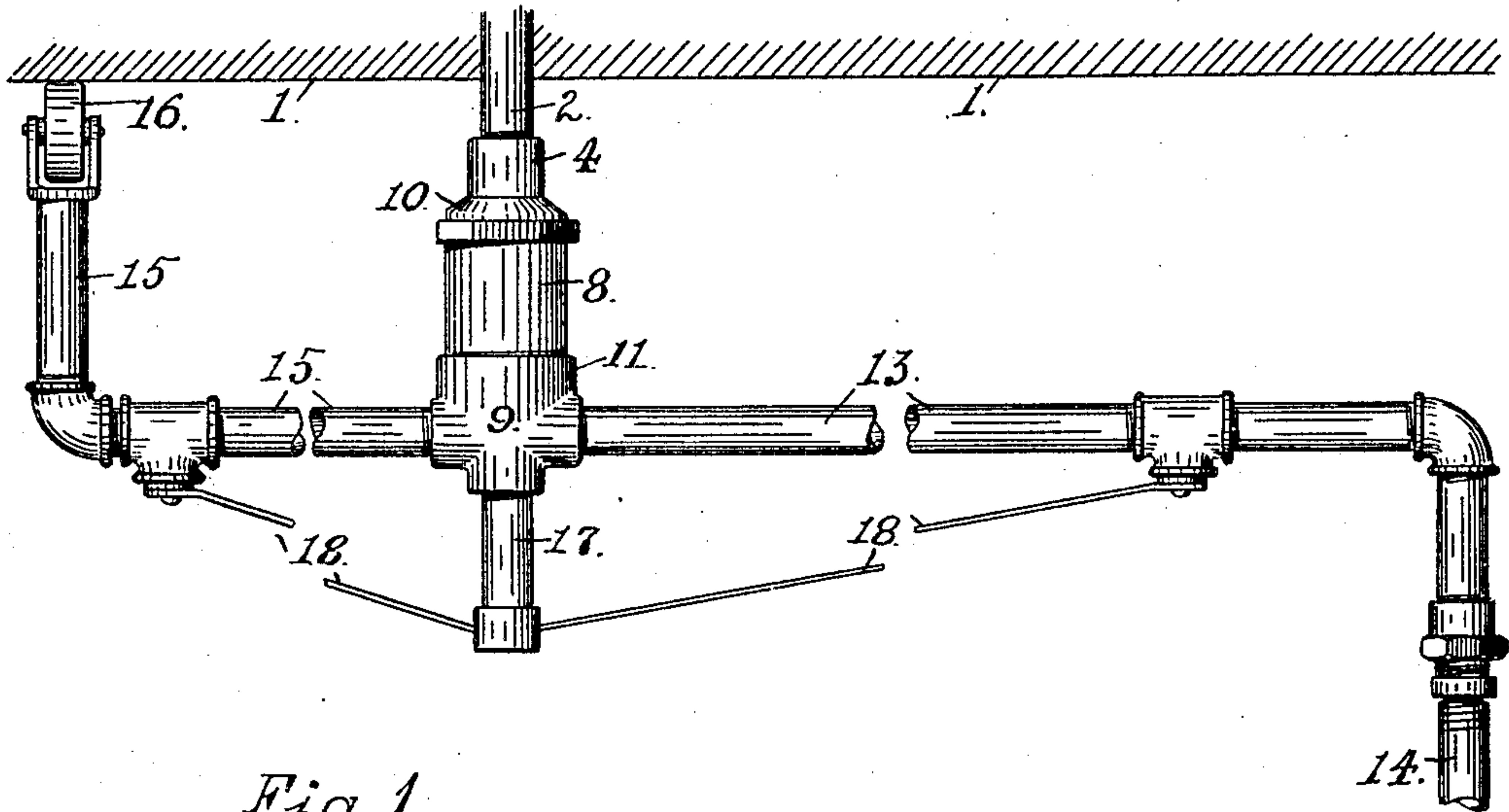


Fig. 1

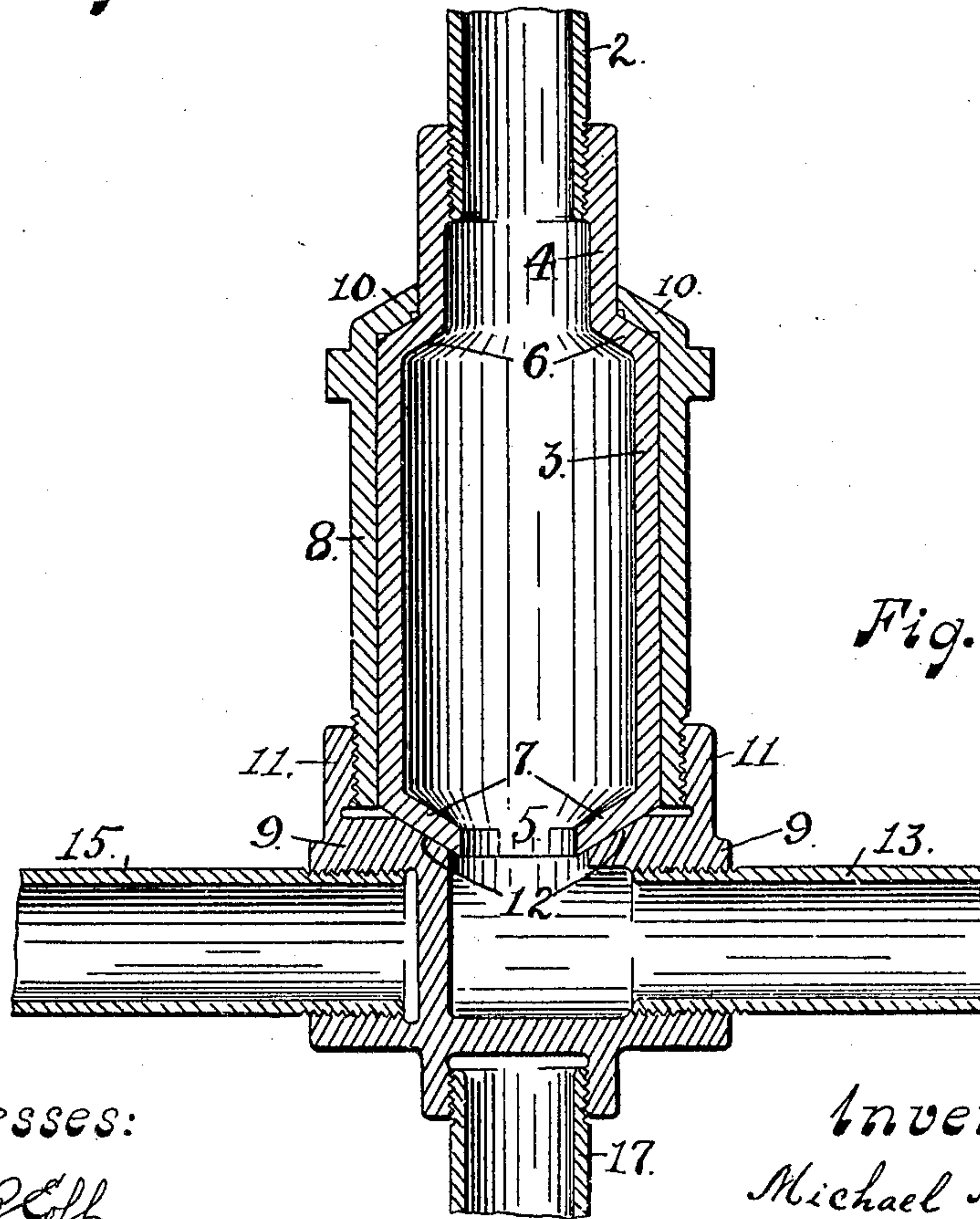


Fig. 2.

Witnesses:

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# UNITED STATES PATENT OFFICE.

MICHAEL H. DORGAN, OF MAYFIELD, CALIFORNIA.

## VEHICLE-WASHER.

No. 871,574.

Specification of Letters Patent.

Patented Nov. 19, 1907.

Application filed March 19, 1906. Serial No. 306,698.

*To all whom it may concern:*

Be it known that I, MICHAEL H. DORGAN, a citizen of the United States, residing at Mayfield, Santa Clara county, State of California, have invented certain new and useful Improvements in Vehicle-Washers; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to that class of vehicle washers to which, from the fact that the device is pivotally suspended from the ceiling, the term "overhead" is applied.

The object of my invention is to provide a simple, economical and effective washer of this class; and to this end my invention consists in a novel swivel-coupling by which the device is pivotally suspended, and in a novel means for relieving said coupling of side strain or twist, and keeping it true and free to turn without cramping under pulling strain placed upon the water branch and hose while being used.

Referring to the accompanying drawings, Figure 1 is an elevation of my vehicle washer. Fig. 2 is a vertical section, enlarged, of the swivel coupling.

1 is the ceiling of the room, through which projects the nipple 2 of a water main. To this nipple is connected the swivel-coupling, best seen in Fig. 2, and composed as follows: 3 is the inner or stationary member, comprising a main body, an inlet neck 4, and an outlet throat 5. The neck joins the body by a sloping shoulder or upper bearing 6, and the throat joins the body by a corresponding sloping shoulder or lower bearing 7. The outer or turning member is in two sections, to wit, the shell 8, and the carrying tee 9. The shell 8 has an annular sloping top flange 10 which bears upon the upper shoulder 6 of the inner member 3, and the lower end of said shell terminates at the beginning of the lower shoulder 7 and is externally threaded, as shown. The carrying tee 9 has an upper internally threaded flange 11 which screws upon the lower end of the shell, and it also has a sloping seat 12, which bears upon the lower shoulder 7 of the inner member 3. The parts of this swivel-coupling are easily assembled by first slipping the inner member 3 up into the shell 8 and then screwing the tee 9 up to its seat. It will thus be seen that the outer member, comprising the shell 8 and the tee 9, is freely turnable about the inner member and good joints may be formed between the upper and the lower bearings or

seats of the two members. Into one of the horizontal arms of the carrying-tee 9 is screwed the water branch 13, to the extremity of which is suitably connected the hose 14. The other horizontal arm of the tee 9 is preferably made with a blind or plugged internally threaded socket, and into this is screwed the strain-relieving arm 15, which bends upwardly and has fitted to its upper end a roller 16 which bears against the ceiling 1. The descending vertical arm of the tee 9 is likewise best made with a blind or plugged socket into which is screwed the post 17, of a truss brace 18, the extremities of which are suitably connected, one with the water branch 13 and the other with the strain-relieving arm 15.

It will readily be seen that the roller 16 traveling against the ceiling relieves the swivel-coupling of all side strain or cramping twist due to the weight of the water branch and hose, or to the necessary pulling upon them during use, so that said coupling turns fairly and freely with the minimum of frictional wear and with the greatest ease.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent is—

1. In a vehicle washer, a fixed water supply pipe, a fixed bearing adjacent thereto a hollow member swiveled to said supply pipe, a water branch extending from one side of said hollow member, and a rigid strain relieving arm extending from the opposite side of said hollow member and terminating in an upwardly extending bearing portion adapted to contact with the under side of said fixed bearing.

2. In a vehicle washer, a fixed water supply pipe, a fixed bearing adjacent thereto a hollow member swiveled to said supply pipe, a water branch extending from one side of said hollow member, and a rigid strain relieving arm extending from the opposite side of said hollow member and having a roller traveling against the under side of said fixed bearing.

3. In a vehicle washer, a fixed water supply pipe depending from a ceiling or fixed support, a hollow member swiveled to said supply pipe, a water branch extending laterally from one side of said hollow member, a rigid strain-relieving arm extending laterally from the opposite side of said hollow member and terminating in an upwardly extending portion provided with a roller traveling against the under side of said fixed support.



4. In a vehicle washer the combination of  
a swivel-coupling suspended from the ceiling  
and comprising a stationary inner member  
formed with an inlet neck and an outlet  
5 throat each joining the body with a bearing  
shoulder, an outer revoluble member con-  
sisting of a shell section having a top flange  
seated directly on the neck shoulder of the  
inner member, and a carrying section fitted  
10 to the lower end of the shell section and hav-  
ing a seat bearing on the throat shoulder of  
the inner member, a water branch fitted to  
one side of the carrying section, and a rigid  
strain-relieving arm fitted to the opposite  
15 side of the carrying section and having a roller  
traveling against the ceiling to counteract  
the side strain of the branch on said swivel  
coupling.

5. In a vehicle washer, the combination of

a suspension swiveled coupling comprising a 20  
stationary inner member formed with an in-  
let neck and an outlet throat, each joining  
the body with a sloping bearing shoulder,  
and an outer revoluble member consisting of  
a shell section having an inclined flange seat- 25  
ed directly on the sloping neck shoulder of  
the inner member, and a carrying section fit-  
ted to the lower end of the shell section and  
having an inclined seat bearing directly on  
the sloping throat shoulder of the inner mem- 30  
ber.

In witness whereof I have hereunto set my  
hand.

MICHAEL H. DORGAN.

Witnesses:

FREDERICK SCHNEIDER,  
S. W. CHARLES.