

No. 877,709.

PATENTED JAN. 28, 1908.

C. W. GEARING & W. J. MCGEE.  
AUTOMOBILE LIFT.

APPLICATION FILED AUG. 29, 1907.

2 SHEETS—SHEET 1.

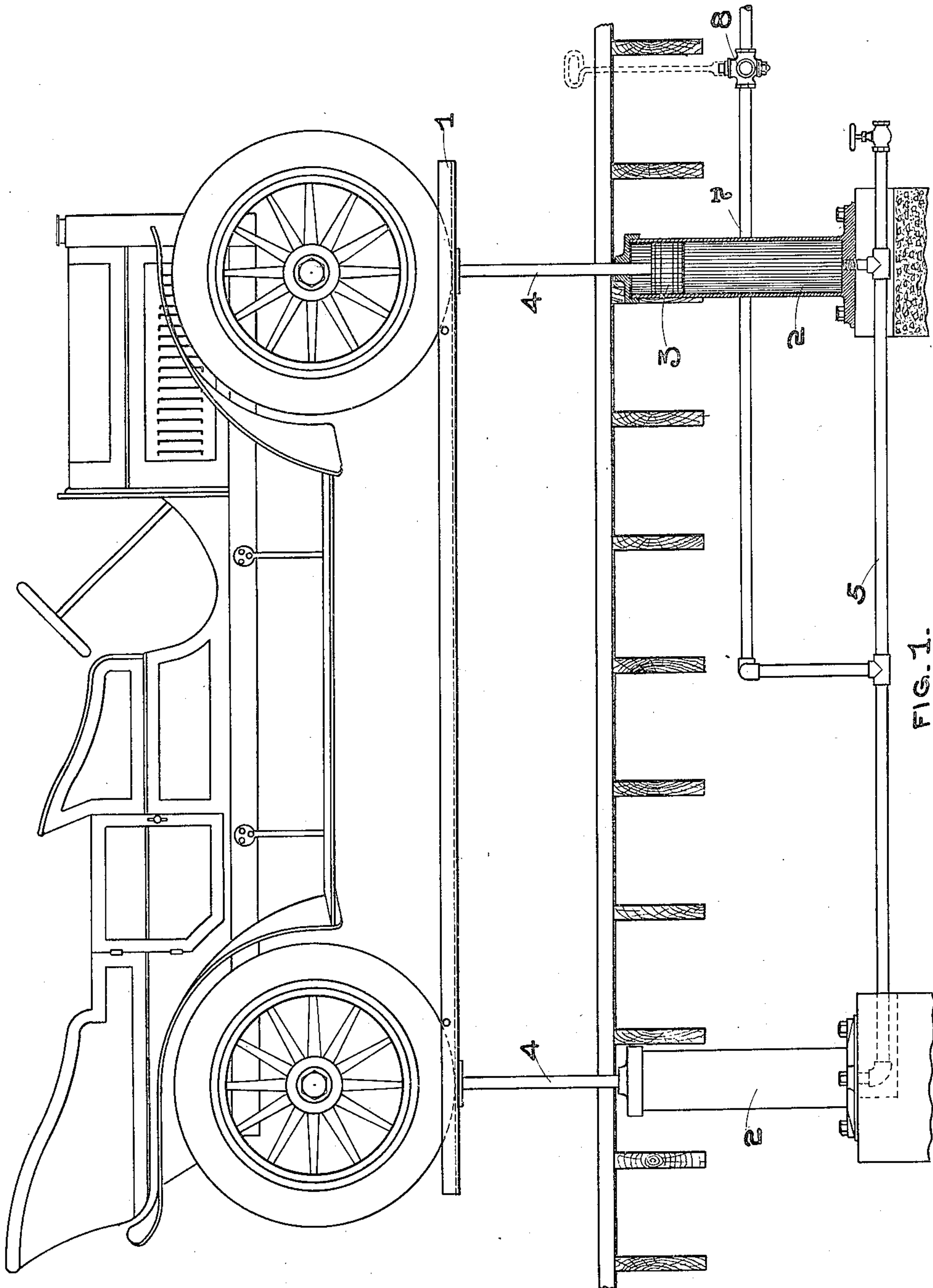


FIG. 1.

Witnesses

*Thos E. Young ad*  
*Frank Davis*

Inventors

CHARLES W. GEARING & WILLIAM J. MCGEE  
By THEIR Attorney

*Edward R. Luman*

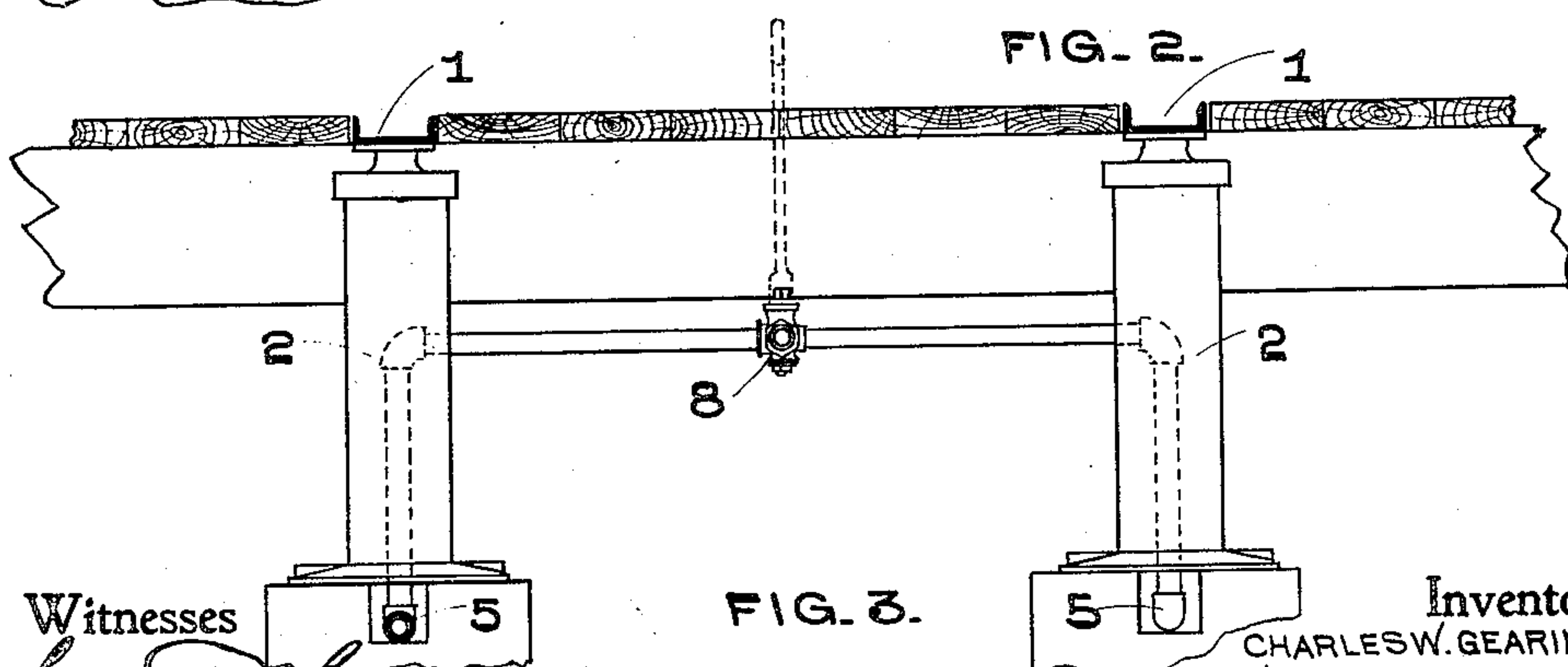
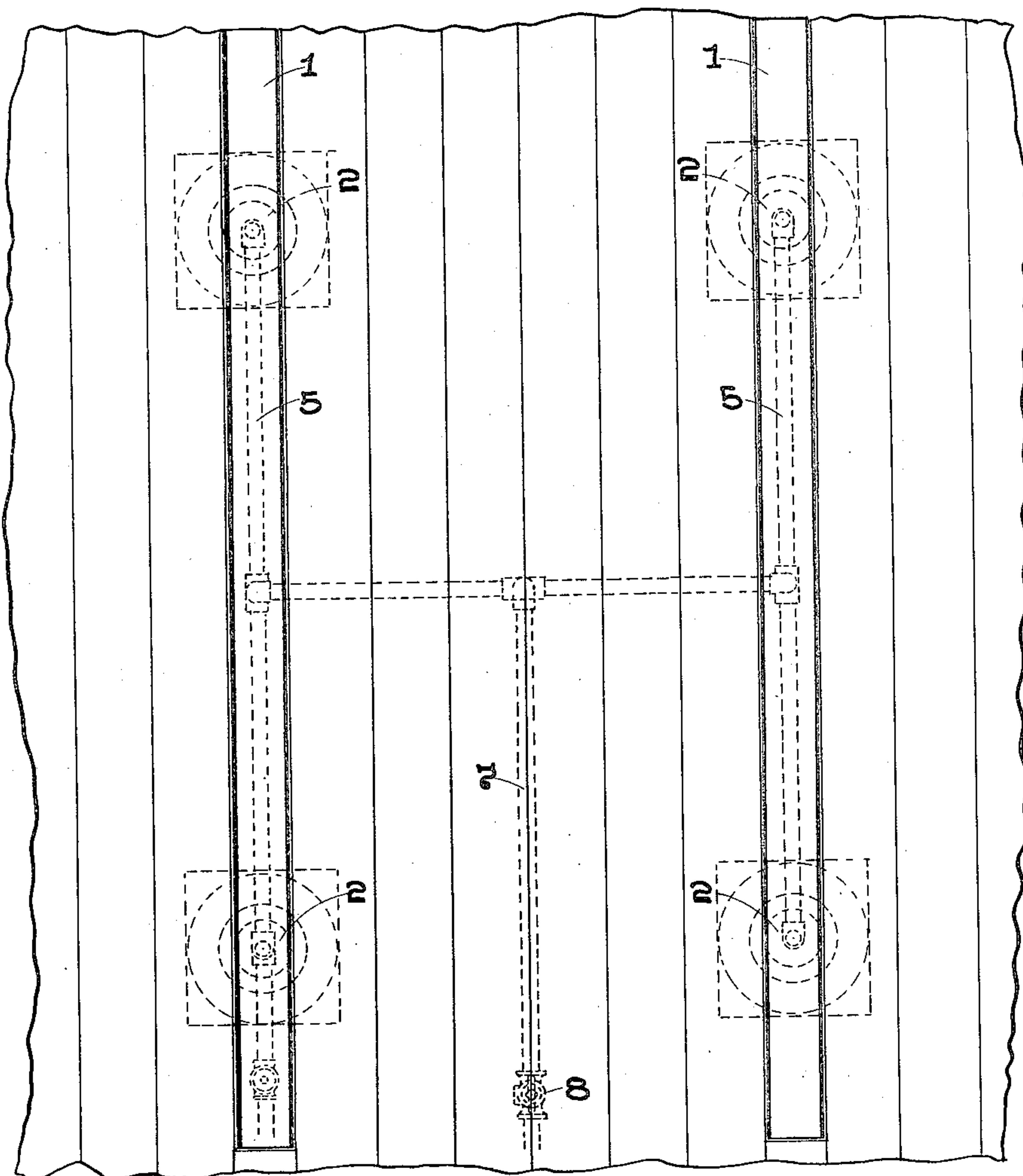
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2 SHEETS—SHEET 2.



Witnesses  
*Thos. C. Thomgate*  
*Frank Parr*

FIG. 3.

By THEIR Attorney

Inventors  
CHARLES W. GEARING  
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*Edward R. Luman*



# UNITED STATES PATENT OFFICE.

CHARLES W. GEARING AND WILLIAM J. MCGEE, OF FRANKLIN, PENNSYLVANIA.

## AUTOMOBILE-LIFT.

No. 877,709.

Specification of Letters Patent.

Patented Jan. 28, 1908.

Application filed August 29, 1907. Serial No. 390,595.

*To all whom it may concern:*

Be it known that CHARLES W. GEARING and WILLIAM J. MCGEE, citizens of the United States, residing at Franklin, in the county of Venango and State of Pennsylvania, have invented certain new and useful Improvements in Automobile-Lifts, of which the following is a specification, reference being had therein to the accompanying drawing.

The object, construction and operation of our invention is herein fully set forth, reference being had to the accompanying drawings forming a part hereof and in which:—

Figure 1 is a side elevation of our improved lift, showing an automobile in position therein, the same being lifted or elevated. Fig. 2 is a plan view of our lift. Fig. 3 is an end elevation of same.

The object of our invention is to provide means for raising an automobile from the floor for the purpose of inspection and repair, and is designed to take the place of a pit, which is now generally provided in garages for the purpose set forth.

It will be readily seen that our device is much more convenient, cleanly and accessible to light than a pit, and that it leaves nearly the entire floor-space unbroken and available for other purposes, when the lift is not being used for its specific purpose.

The construction of our device is substantially as follows: Two channel bars 1, preferably of standard steel construction, are let into the floor of a garage, each channel with its trough upward, and at the proper distance apart for the reception of the wheels of an automobile: The upper edges of the flanges of said channels are preferably flush with the surface of the floor, as will be clearly seen from an inspection of Fig. 3. Beneath each channel is placed two vertically-disposed cylinders, 2, 2,—one cylinder approximate to each end of said channel. In each of said cylinders is a piston 3,—Fig. 1—each provided with a piston rod 4 which extends upward through the cylinder-head, said rods being rigidly attached, at their upper ends to the respective channel which is positioned

above the same. The chamber in each cylinder, below the piston is adapted to the reception of an actuating medium, such as compressed air, steam or water under pressure, a pipe being connected into the bottom of each cylinder for the introduction of such medium.

The operation of our device is substantially as follows: When an automobile is to be lifted therein, the wheels of the same are run into the channels 1, 1, as shown in Fig. 1, the actuating medium is then admitted to the cylinders 2, by way of the pipes 5, pipe 7 and the three-way cock 8, which causes the pistons 3 to rise and lift the channels 1, 1 with their superimposed load: The pressure in said cylinders will sustain said load indefinitely. When it is desired to lower the automobile, the three-way cock 8 is turned so as to permit the escape of the actuating medium from the cylinders, thus allowing the pistons 3 to descend.

Having thus described our invention, what we claim and desire to secure by Letters Patent is:

1. In an automobile lift, the combination with the floor of a garage, of channels let into said floor and adapted to receive the wheels of an automobile, and means for raising said channels.

2. In an automobile lift, channels adapted to receive the wheels of an automobile, cylinders positioned beneath said channels, a piston in each of said cylinders, there being a rod attached to each of said pistons and extending through, the head of its respective cylinder, the upper end of said rod being attached to the channel which is positioned above the same, and means for admitting an actuating fluid to said cylinders beneath said pistons, for the purpose set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

CHARLES W. GEARING.  
WILLIAM J. MCGEE.

Witnesses:

HOMER R. BLAIR,  
E. R. INMAN.