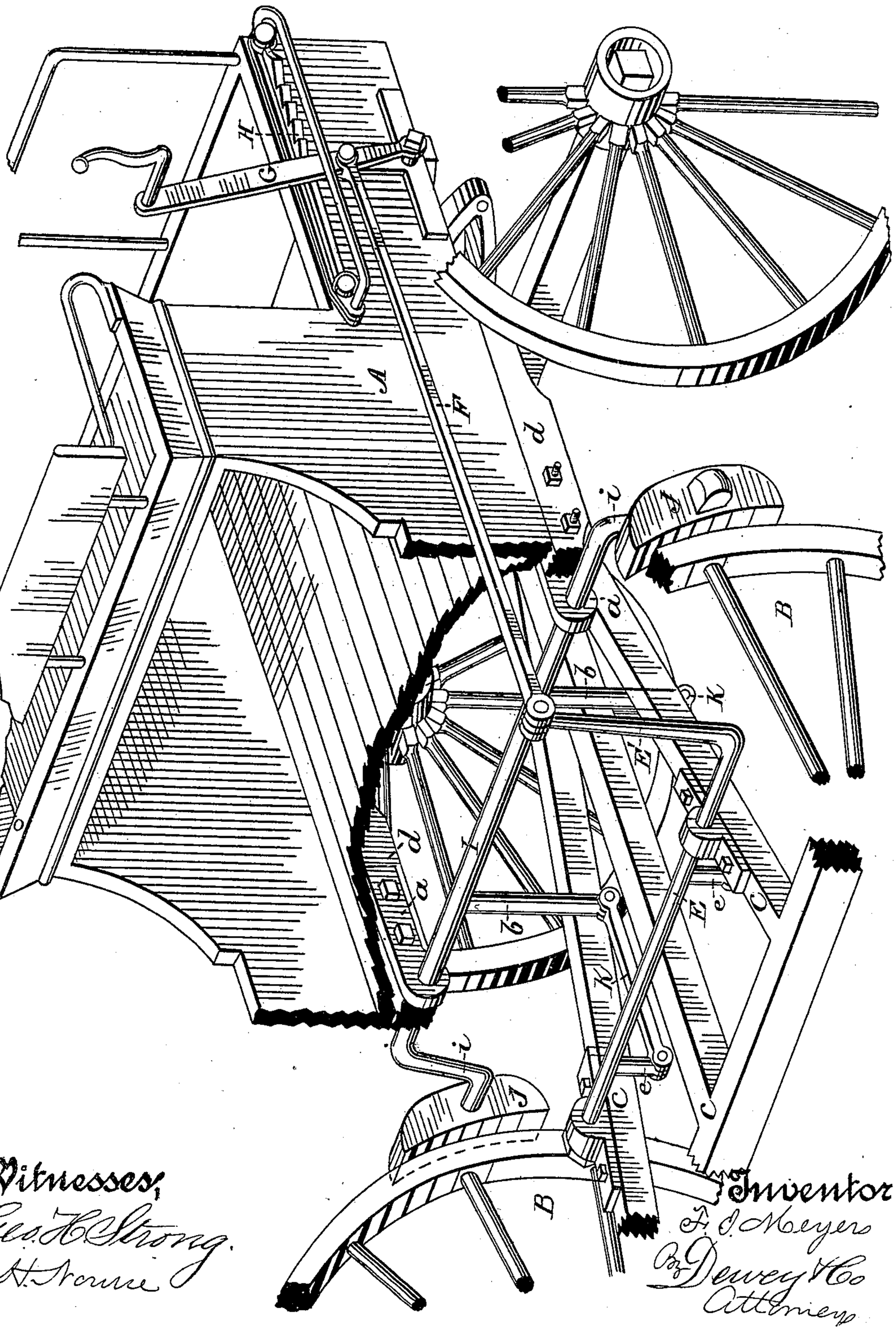
(No Model.)

F. I. MEYERS.

VEHICLE BRAKE.

No. 270,328. Patented Jan. 9, 1883.



Witnesses;
Geo. H. Strong.
S. H. Browne

Inventor
F. I. Meyers
By Dewey & Co
Attorneys

UNITED STATES PATENT OFFICE.

FRANCIS I. MEYERS, OF HEALDSBURG, CALIFORNIA.

VEHICLE-BRAKE.

SPECIFICATION forming part of Letters Patent No. 270,328, dated January 9, 1883.

Application filed August 5, 1882. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS I. MEYERS, of Healdsburg, county of Sonoma, State of California, have invented an Improved Vehicle-Brake; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to the class of vehicle-brakes, and to the means whereby power is transmitted from the lever to the brake-blocks.

My invention consists in certain levers and shafts, and in the position of the latter.

More particularly, it consists of two rocking shafts, to one of which, through a long arm and a connecting-rod, the power is applied, and to the other, which carries the brake-blocks, the power is transmitted by means of arms and rods connecting it with the first shaft. The second shaft is journaled higher up than the first, whereby longer arms may be provided and an increased leverage obtained, and the first shaft, by being low down, may have a longer arm connecting it with the main lever, as will hereinafter be fully explained.

The object of my invention is to provide a means whereby the brakes may be applied with great power, and which will require but small force to operate them.

Referring to the accompanying drawing, the figure is a perspective view of my vehicle-brake.

Let A represent a portion of the body of an ordinary spring-wagon; B, the rear wheels, and C the reaches or frame.

Upon the reaches or frame, just in front of the rear axle, is journaled a shaft, E, provided with two downwardly-extending arms, *e e*, one at each side. One end of the shaft projects beyond the journal, and has an upwardly-extending arm, E′, of a length to reach to the side of the body A. To its top is pivoted a connecting-rod, F, the other end of which is pivoted to a vertical lever, G, which is itself pivoted suitably to the body, and is adapted to engage above with a rack, H. The movement of the lever G rocks the shaft E.

Upon the inside of the spring-blocks *d*, on top of the usual side springs, (not here shown,) are secured brackets or supports *a*, through the rear ends of which loosely passes a shaft, I. The ends of the shaft project to one side just under the body, and are turned downwardly to form arms *i*, reaching to about a line with the hub of the wheels, and thence outwardly, as shown. They carry the brake-blocks J, which are adapted to impinge against the wheels. The shaft I is provided with downwardly-extending arms *b*, the ends of which are connected by rods K with the arms *e* of shaft E.

The operation of these devices is as follows: By the rocking of the shaft E the shaft I is rocked to move its arms *i*, with their brake-blocks, against the wheels. It will be observed that the position of my shaft I is the same as is usually found on light vehicles. In this position it is out of the way and presents a neat appearance. I am enabled to turn it from below because of its long arms *b*, through which it is connected with shaft E. Again, the long arm E′, which I am enabled to have by reason of the low position of shaft E, adds to the force with which said shaft may be moved.

The combination of these devices renders it possible for a comparatively slight movement of the main lever G to affect with much force the brake-blocks, which is the object in view.

These devices are, moreover, simple and not likely to get out of order, and at the same time present a neat appearance.

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

A braking apparatus for vehicles, consisting of the combination of the rocking shaft E, having upwardly-extending arm E′ at one end, the main lever G and connecting-rod F, the rocking shaft I, mounted in supports *a*, just under the body of the vehicle, said shaft having end arms, *i*, carrying brake-blocks J, and downwardly-extending arms *b*, connected with the arms *e e*, substantially as herein described.

In witness whereof I hereunto set my hand.

FRANCIS I. MEYERS.

Witnesses:
W. W. MORELAND,
D. B. WOOLF.