

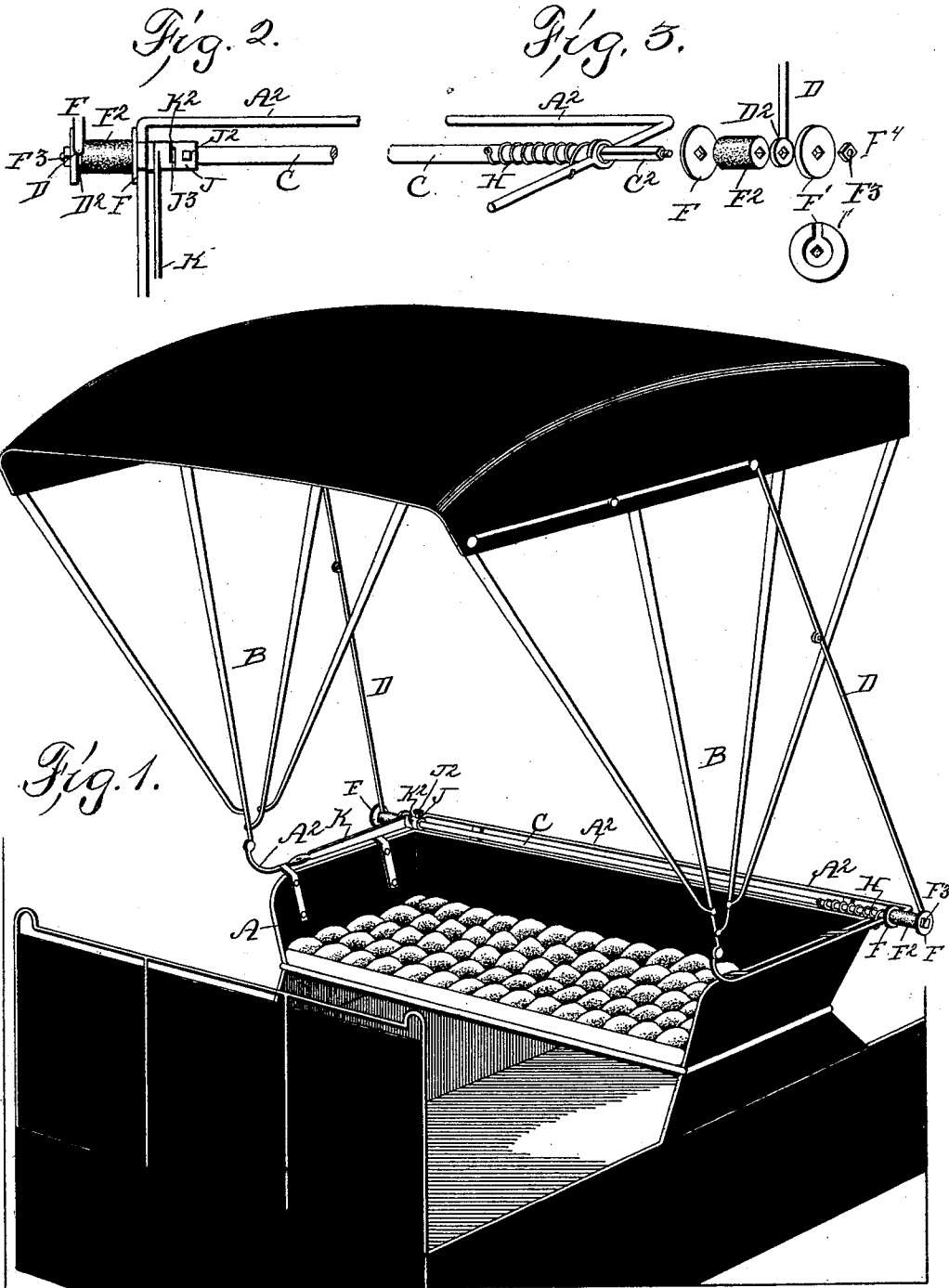
(No Model.)

J. A. M. TYLER.

DEVICE FOR RAISING OR LOWERING BUGGY TOPS.

No. 583,295.

Patented May 25, 1897.



Witnesses:
W. J. Sankey,
R. G. Orwig.

Inventor: James A. M. Tyler,
By Thomas G. and J. Ralph Orwig, Attorneys.

UNITED STATES PATENT OFFICE.

JAMES A. M. TYLER, OF LEXINGTON, NEBRASKA, ASSIGNOR OF ONE-THIRD
TO GEO. B. DARR, OF SAME PLACE.

DEVICE FOR RAISING OR LOWERING BUGGY-TOPS.

SPECIFICATION forming part of Letters Patent No. 583,295, dated May 25, 1897.

Application filed December 11, 1896. Serial No. 615,400. (No model.)

To all whom it may concern:

Be it known that I, JAMES A. M. TYLER, a citizen of the United States, residing at Lexington, in the county of Dawson and State of Nebraska, have invented a new and useful Device for Raising or Lowering Buggy and Carriage Tops, of which the following is a specification.

This invention relates to that class of devices for raising or lowering buggy-tops in which the lever by which the buggy-top is operated may be placed in position to lie parallel with the top of the seat when the buggy-top is in any position.

My object in this invention is to provide a device of simple, cheap, strong, and durable construction whereby the buggy-top may be connected with a support from a vehicle-seat.

My object is, further, to provide a device to be connected with the supporting-frame for the buggy-top whereby the joints in the buggy-top may be broken, so as to enable the buggy-top to be lowered with one hand and the lever for operating the same be placed parallel with the top of the seat, which means shall be of simple, cheap, strong, and durable construction.

My invention consists in certain details of construction, arrangement, and combination of parts, as hereinafter set forth, pointed out in my claim, and illustrated in the accompanying drawings, in which—

Figure 1 shows the complete device as in practical use. Fig. 2 shows a detail view illustrating the means for moving the handle independently of the shaft. Fig. 3 shows a detail perspective view of the opposite end of the shaft and its accompanying parts detached.

Referring to the accompanying drawings, the reference-letter A is used to indicate a buggy-seat, and A² a metal frame secured to the back and sides of the seat and having the buggy-top-supporting rods B hinged thereto, and at the back a shaft C, rotatably mounted to extend transversely of the seat.

D indicates the jointed braces of the buggy-top. They are connected with the top in the usual way. Their lower ends have openings

therein to admit the ends of the shaft C, which are made angular at C². On each end of the shaft I have placed first a disk F, having an angular central opening; then a rubber cushion F²; then a second disk F³, having an angular central opening and also a groove F' to admit the end of the jointed brace, and finally a nut F⁴ on the end of the shaft.

H indicates a coil-spring wound upon the shaft C, with one end fixed thereto and its other end hooked under the frame A², the force of the spring being extended to rotate the shaft in the direction that will elevate the top. Hence as the top is lowered power is stored in the spring and its rapid descent stopped, and as the top is raised the spring will aid and make it easier to raise.

On the end of the shaft opposite from the spring is a collar J, fixed to the shaft by means of a set-screw J² and having a clutch-face J³ on its outer surface. K indicates a lever having a mating clutch-face K² to mate with the clutch J³. This lever is arranged to be capable of a rotary movement on the shaft, and the clutches so arranged that when the top is raised the clutches will engage, so that a movement of the lever will lower the top, and then the lever may be returned to its horizontal position. To raise the top, one of the braces thereof is grasped and the top raised in the ordinary way. The lever is used only to break the joints in the braces, which operation usually requires both hands. After the joints are broken the top is easily handled from one side with one hand.

Having thus described my invention, what I claim as new therein, and desire to secure by Letters Patent of the United States therefor, is—

The combination of a folding buggy-top, of a metal frame to extend around the rear and sides of the buggy-seat, and having the buggy-top braces hinged to its front ends, and having bearings at its rear, in the rear of the seat, a rock-shaft mounted in said bearings, a disk fixed to the shaft near one end, and having an outwardly-projecting lug thereon, a lever rotatably mounted on the shaft, and having a shoulder thereon arranged to engage

the projection of the disk when the buggy-top
is in a raised position and the lever is in a
position approximately parallel with the top
of the buggy-seat, so that an upward move-
5 ment of the lever will engage the projection
of the said disk and turn the shaft rearwardly,
and so that the lever may again be moved
forwardly to its position on top of the buggy-

seat as soon as the joints in the buggy-top
have been broken, substantially as and for 10
the purposes stated.

JAMES A. M. TYLER.

Witnesses:

G. B. DARR,

C. F. SPENCER.