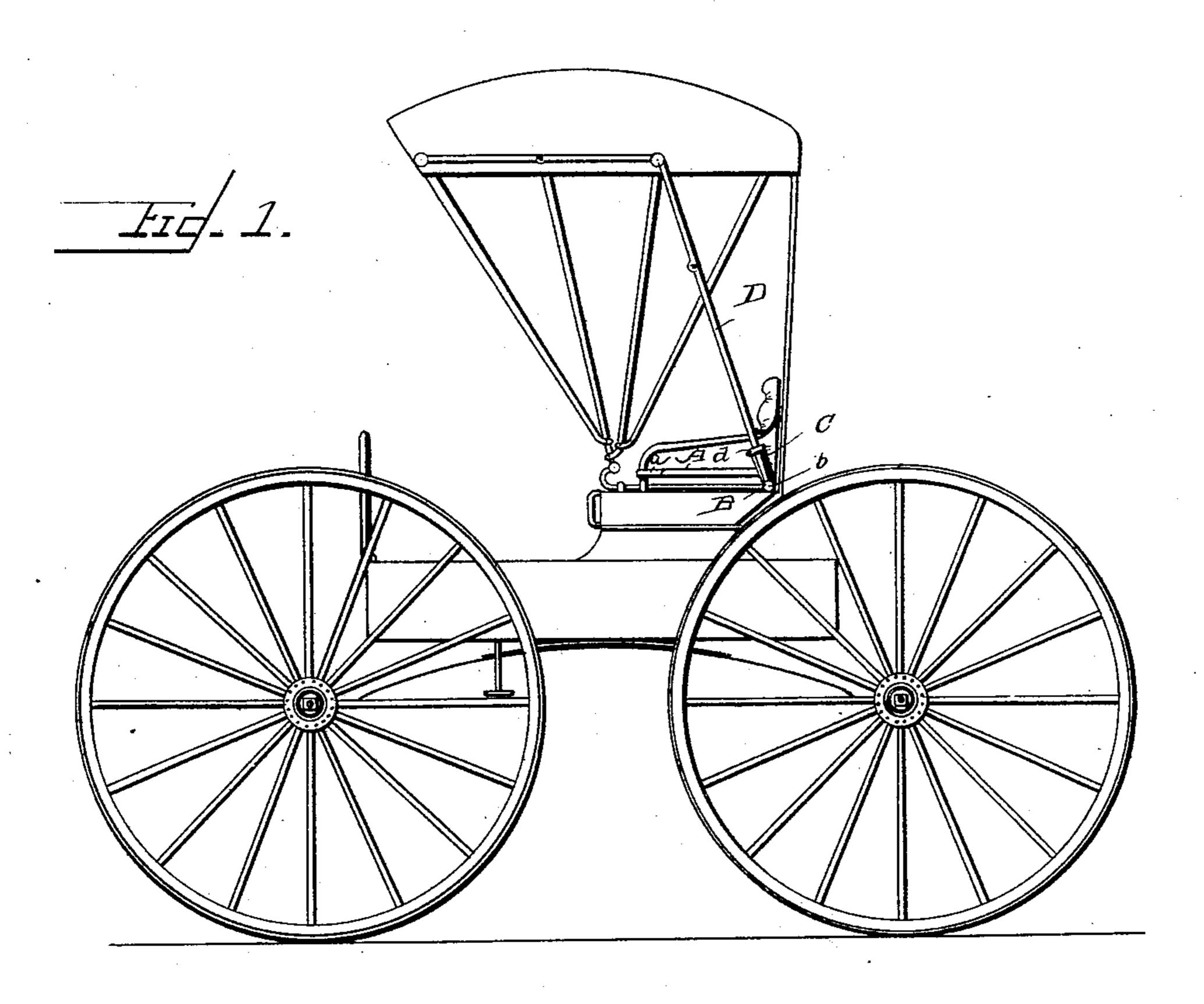
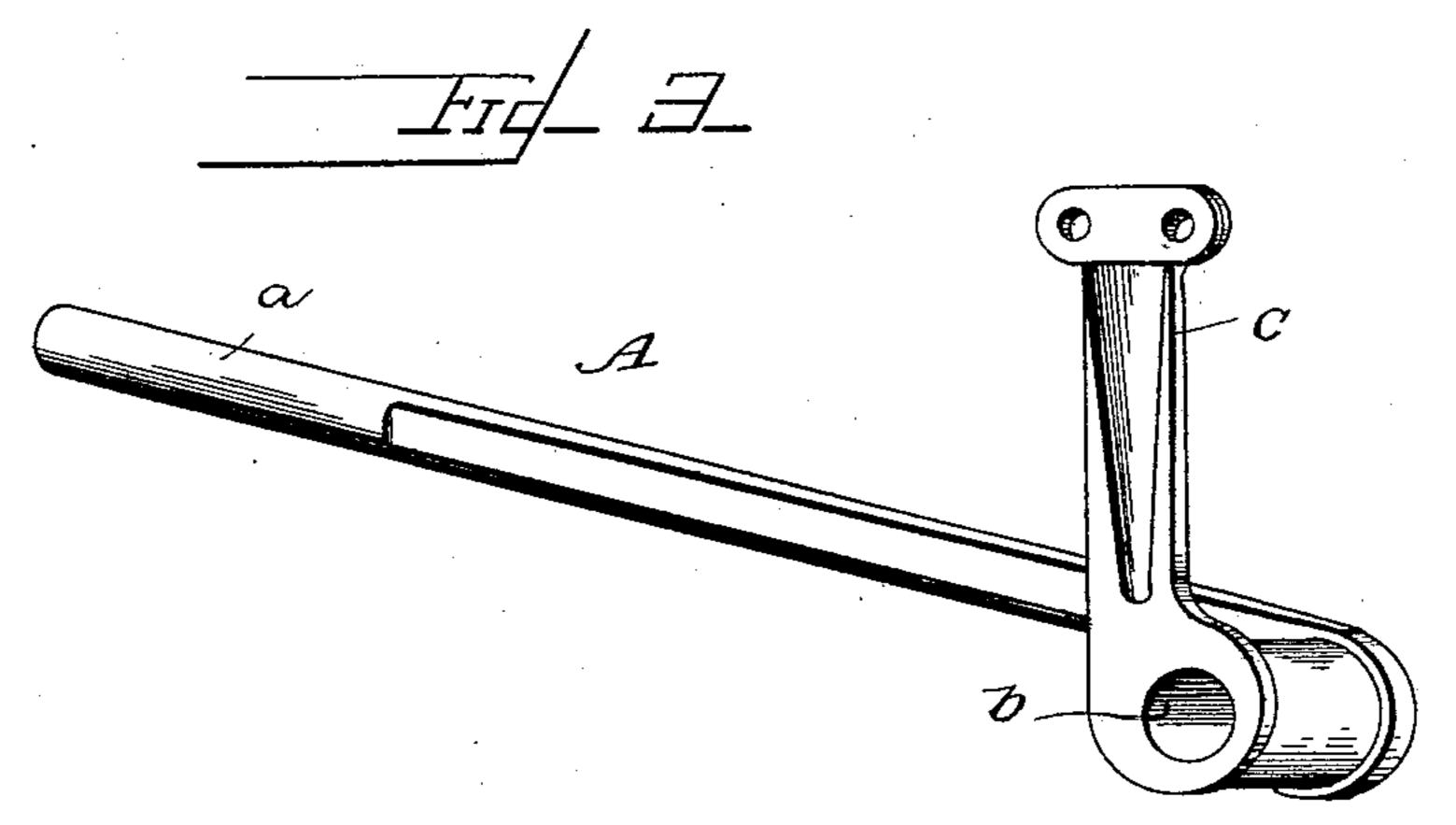
H. TORESEN.

LEVER FOR RAISING AND LOWERING BUGGY TOPS.

No. 480,531.

Patented Aug. 9, 1892.





Witnesses Jesse Heller Phillellasi. Hours Foreson Ly EW. Anderson his

Attorney

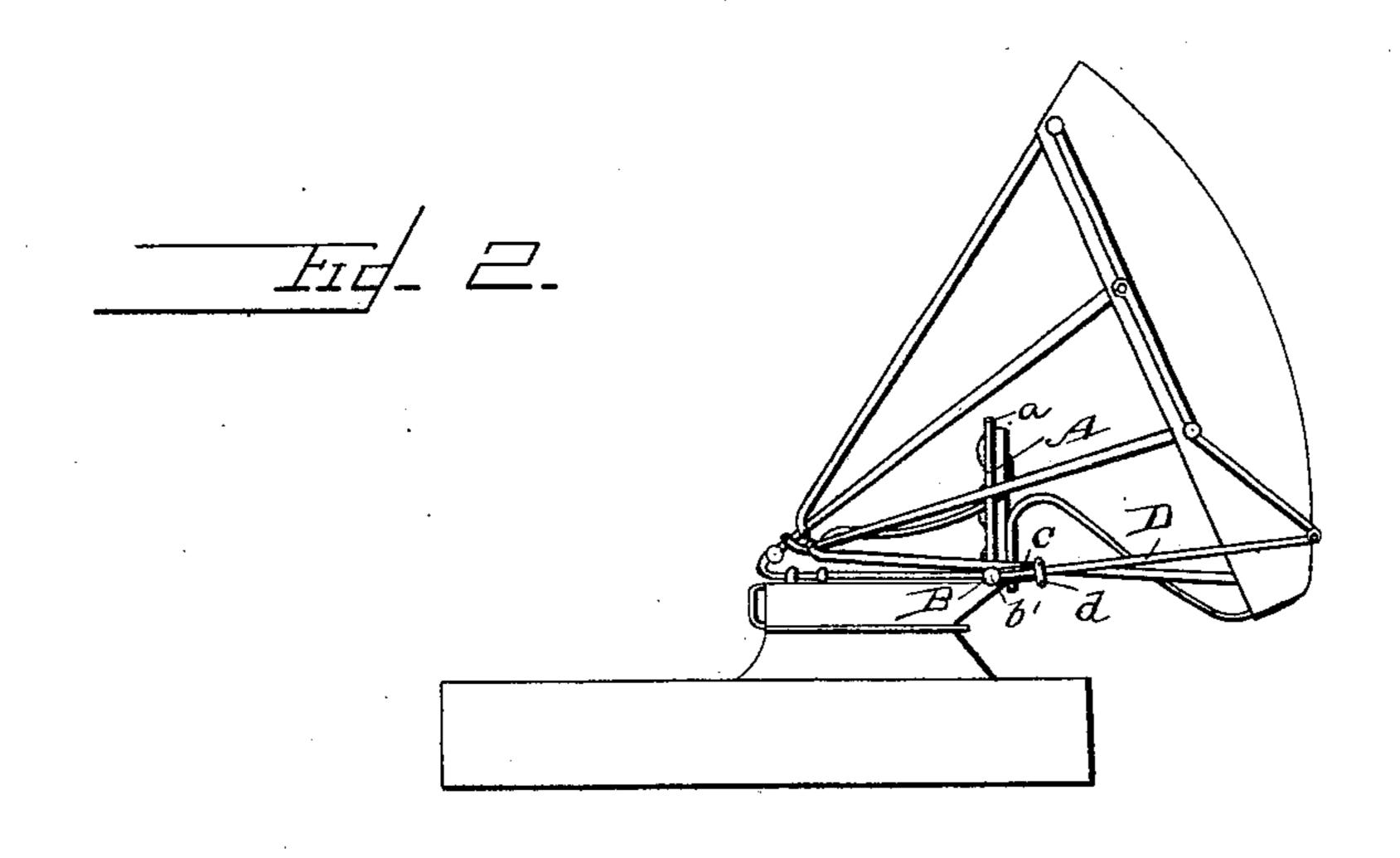
2 Sheets—Sheet 2.

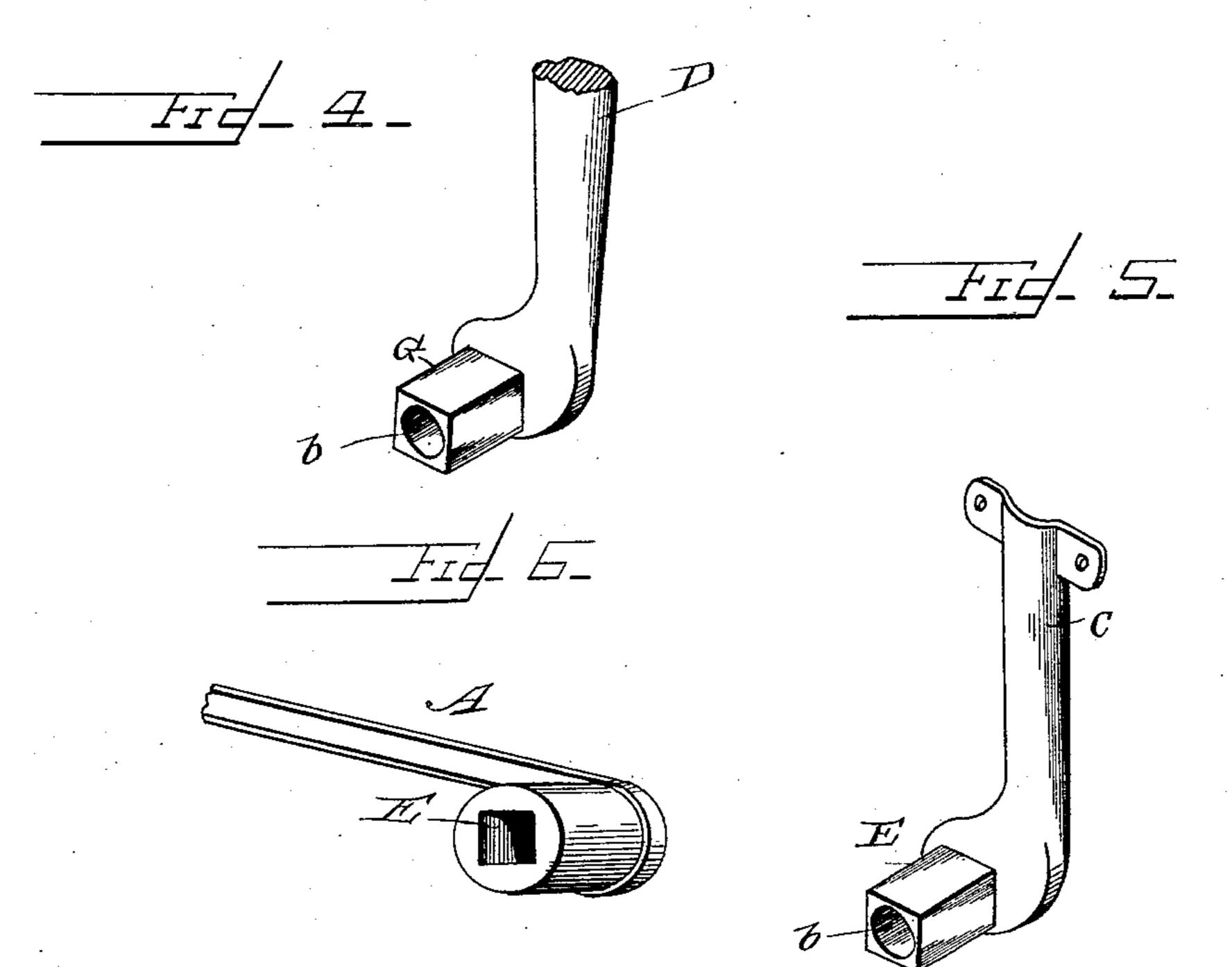
H. TORESEN.

LEVER FOR RAISING AND LOWERING BUGGY TOPS.

No. 480,531.

Patented Aug. 9, 1892.





Witnesses Jesse Heller. Phillelleasi Hours Foresen

Ly EW. anderson

his

Ottorney

United States Patent Office.

HANS TORESEN, OF YANKTON, SOUTH DAKOTA.

LEVER FOR RAISING AND LOWERING BUGGY-TOPS.

SPECIFICATION forming part of Letters Patent No. 480,531, dated August 9, 1892.

Application filed February 3, 1892. Serial No. 420,238. (No model.)

To all whom it may concern:

Be it known that I, HANS TORESEN, a citizen of the United States, and a resident of Yankton, in the county of Yankton and State of South Dakota, have invented certain new and useful Improvements in Levers for Raising and Lowering Buggy-Tops; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable to others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a side elevation showing the invention applied with the carriage-top raised. Fig. 2 is a similar view with the top down. Fig. 3 is a detail of the lever, and Figs. 4, 5, and 6 are details showing differ-

20 ent constructions of the lever.

This invention has relation to certain new and useful improvements in devices for raising and lowering carriage-tops; and it consists in the novel construction and combina-

25 tion of parts, as hereinafter specified.

In the accompanying drawings, the letter A designates a lever-arm having one end formed into a handle portion a and at the other end having a barrel or eye portion b 30 projecting at right angles thereto. This lever is placed at the side of the seat, the barrel or eye b fitting loosely on the iron or stud b' on which the top rests when down. Projecting upwardly and rearwardly from the outer end 35 of the barrel or eye b is an arm C, lying alongside the brace-rod D of the top, and clipped or otherwise suitably secured thereto at d. The lever A when the top is up occupies a horizontal position at the side of the seat, as 40 shown in Fig. 1. When it is desired to lower the top, the lever is carried upward and backward, causing the arm C to take a bearing on the joint brace-rod in such a manner as to cause it to flex and allow the top to fall in 45 the usual manner, as shown in Fig. 2. To raise the top, the lever is brought back forwardly and downwardly, the arm C taking a

bearing on the joint brace-rod to lift the top.

In Fig. 3 I have shown the arm C as formed

integral with the eye portion b; but it may
be formed separately, as shown in Figs. 5 and

ward angular projection E, which engages a

similarly-shaped socket in the eye b. The projection E and arm C are perforated to 55 permit the passage therethrough of the iron or stud B. This construction allows the arm C to be made adapted for use with different forms of joint-brace rods in different styles of carriages. The face of said arm which 60 lies against the joint-brace is usually grooved to allow it to lie more snugly in contact therewith.

The forms above described are especially intended for application to any carriage in use. 65

In constructing a new carriage, instead of the arm C, the lower end of the joint-brace may be formed with an inward angular projection G, corresponding to the projection E, which engages the socket in the eye or bar-70 rel, this doing away with the necessity of a separate piece. This construction is illustrated in Fig. 4.

The parts may be covered with leather or other similar covering, if desired.

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

1. A device for raising and lowering carriage-tops, comprising a lever A, having a 80 handle portion a at one end, a projecting barrel or eye b at the other end, adapted to loosely engage the iron or stud forming the support for the top when down, and the upwardly-projecting arm C, designed to be consected to or form a part of the joint-brace, substantially as specified.

2. The combination, with a carriage-top, of the device for raising and lowering said top, said device comprising a lever A, an eye or 90 barrel b on one end of said lever and projecting outwardly therefrom, said eye or barrel being loosely sleeved on the stud or iron b' of the carriage-frame, and an upwardly-projecting arm C, having an angular portion arranged to detachably engage said eye or barrel, said arm having means whereby it is secured to a joint-brace of the top, substantially as specified.

In testimony whereof I affix my signature in 100 presence of two witnesses.

HANS TORESEN.

Witnesses:

H. W. WHITE,

G. W. ROBERTS.