

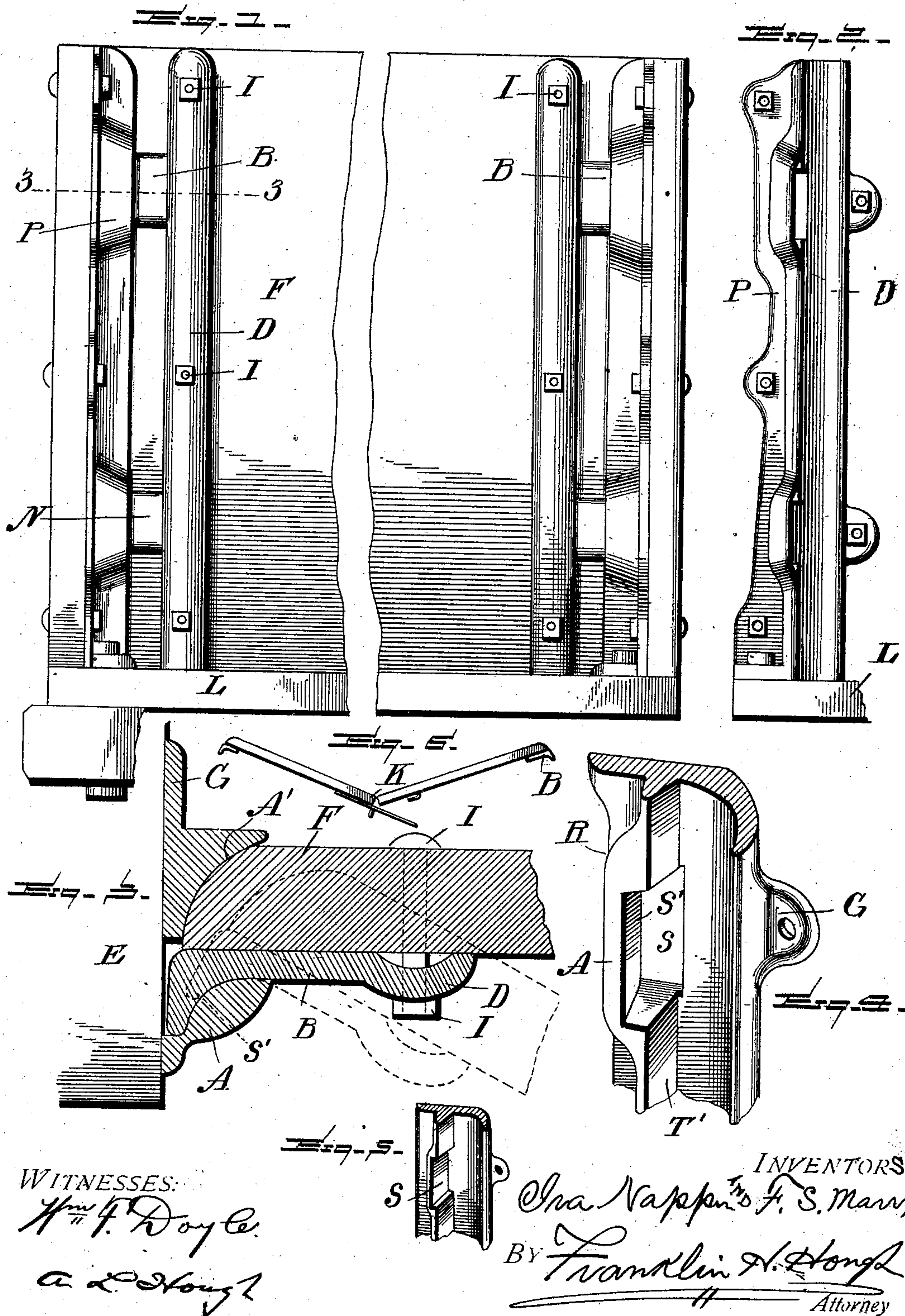
No. 688,540.

Patented Dec. 10, 1901.

I. NAPPIN & F. S. MARR.
WAGON END GATE FASTENING.

(Application filed Mar. 12, 1901.)

(No Model.)



UNITED STATES PATENT OFFICE.

IRA NAPPIN AND FRANKLIN S. MARR, OF FARMINGTON, ILLINOIS.

WAGON END-GATE FASTENING.

SPECIFICATION forming part of Letters Patent No. 688,540, dated December 10, 1901.

Application filed March 12, 1901. Serial No. 50,872. (No model.)

To all whom it may concern:

Be it known that we, IRA NAPPIN and FRANKLIN S. MARR, citizens of the United States, residing at Farmington, in the county of Fulton and State of Illinois, have invented a certain new and useful Improvement in Wagon End-Gate Fastenings; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as it pertains to make and use the same.

This invention relates to new and useful improvements in end-gates for wagons; and it consists in the provision of metallic strips which are grooved and secured to the inner faces of the side-boards adjacent to their rear ends and metallic strips which are secured to the end-gate, which is made, preferably, of two pieces hinged together at the center, the lugs on the end-board adapted to engage in sockets in the metallic strips fastened to the side-boards of the wagon.

The invention is illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form part of this specification, and in which drawings—

Figure 1 is a rear elevation of an end-board of a wagon shown as applied to the box. Fig. 2 is an elevation of one of the strips which is adapted to be secured to the side-board of the wagon. Fig. 3 is a cross-sectional view horizontally on line 3 3 of Fig. 1. Fig. 4 is an enlarged detail view in perspective of one of the socket-strips which is fastened to the side-board, the ends being broken away. Fig. 5 is a detail view, and Fig. 6 is a view showing the two sections of the end-gate which are adapted to be hinged together at their adjacent edges.

Reference being had to the details of the drawings by letter, F F designate two complementary sections of the end-board, which are hinged together at their meeting edges. Fastened to the inner face of each side-board adjacent to their rear ends are strips A, which are longitudinally grooved, as at T, and S S designate apertures in said metallic strips, one wall of each aperture being convex, as at S'. (Shown clearly in Figs. 3 and 4 of the drawings.) The rib portion T', Fig. 2, is reinforced, as at R, at locations adjacent to said aper-

tures. Secured to each hinged section of the end-board is a metallic plate B, which has a bolt I passing through one end, while its other end is concaved and adapted to fit over the convex surface S' of the metallic strip A.

Referring to Fig. 3 of the drawings, A' designates a concaved grooved portion of the strip A, which is so constructed as to receive the convex end F' of the end-gate section. Each outer end of the hinged end-gate sections is equipped with similarly-constructed strips D, having lugs B and N, which engage slots in the metallic strips A.

In applying our improved end-gate to the wagon the outer ends of the hinged sections of the end-gate are inserted in the manner illustrated in Fig. 3 of the drawings, and after the hooked end of the lug B is inserted within the groove in the metallic strip A the end of the section F is swung so that the convex surface F' comes in contact with the concaved surface A', and the sections of the end-gate may be held together in any suitable manner.

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

An end-gate for wagons comprising in combination with the wagon, the metallic strips A secured to the inner faces of the side-boards adjacent to their rear ends, each metallic strip having a recess with a convex surface S', and a groove with a concaved bottom A' combined with a hinged end-gate, a metallic strip D secured adjacent to the outer end of each hinged gate-section, each of said strips D having lugs projecting laterally therefrom, said lugs having their outer ends hook-shaped with concaved outer margins designed to engage said convex surface S' of the metallic strip A, the outer ends of each end-gate section being convex as at F', and designed to engage a concaved groove A', as set forth.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

IRA NAPPIN.
FRANKLIN S. MARR.

Witnesses:

WILLIAM ELLIOTT,
J. W. MARTIN.