S. GILZINGER.

ADJUSTABLE THILL-ATTACHMENT.

No. 193,505. Patented July 24, 1877.

Fig: 1.

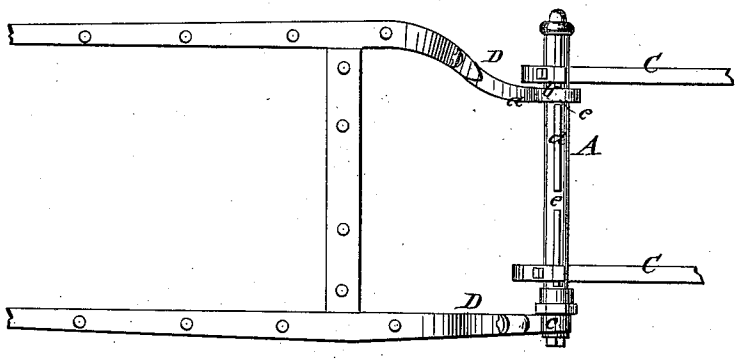


Fig: 2.

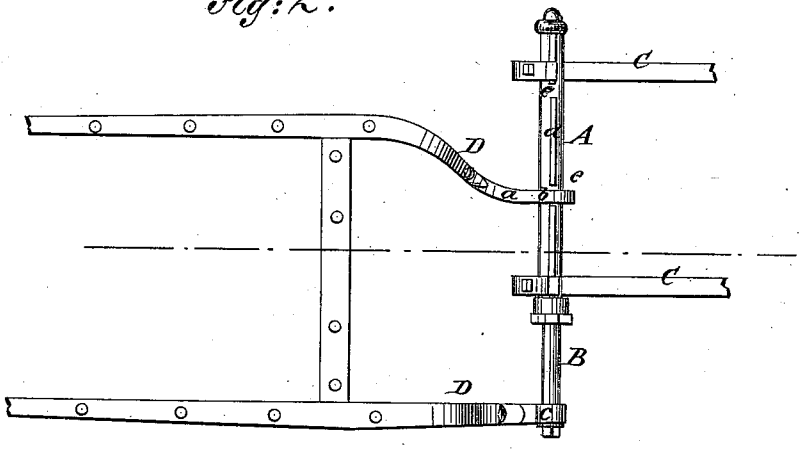
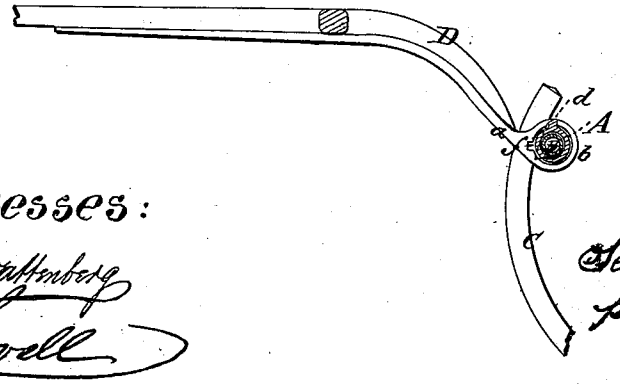


Fig: 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

SEBASTIAN GILZINGER, OF RONDOUT, NEW YORK, ASSIGNOR OF ONE-HALF HIS RIGHT TO ABEL A. CROSBY, OF SAME PLACE.

IMPROVEMENT IN ADJUSTABLE THILL ATTACHMENTS.

Specification forming part of Letters Patent No. **193,505**, dated July 24, 1877; application filed January 26, 1877.

To all whom it may concern:

Be it known that I, SEBASTIAN GILZINGER, of Rondout, in the county of Ulster and State of New York, have invented a new and Improved Thill Attachment; and that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making part of this specification.

This invention is in the nature of an improvement in thill attachments; and the invention consists in an adjustable thill attachment, consisting of a tubular attaching-bar, within which is fitted a second bar, constructed to slide in and out of the first-named attaching-bar.

In the accompanying sheet of drawings, Figure 1 is a plan or top view of my invention with the thills arranged for front draft. Fig. 2 is a plan or top view, with thills arranged for side draft; and Fig. 3 is a section through the line *x x*, Fig. 2.

Similar letters of reference indicate like parts in the several figures.

This thill attachment is more particularly adapted for use in connection with sleighs. It is common, particularly in country districts, for the road to have a bank of snow between the track of the sleigh and the track of the horse, from the common practice of securing the thills not directly in front of the runners, but to one side of them. For this reason, a sleigh with the thills secured in front of the runners cannot be conveniently used on such roads, because of the bank of snow before referred to, and it therefore becomes desirable to have the thills so arranged and constructed that they may be readily shifted from directly in front of the runners (in which position they are ordinarily used in towns and well-beaten roads) to a position which is at one side of the front of the runners, to adapt the sleigh to the country-roads before mentioned.

To accomplish this with facility, and without the necessity of employing a wrench, I construct a tubular attaching-bar, A, which may be secured in any desirable manner to the runners C. This tube may be of any desirable size and material, and has fitted into it a second bar, B, of such size as to readily slide telescopically into the first-mentioned or attaching tube A. The thills D have secured to them, at one side, an attaching-iron, *a*, with an eye, *b*, formed therein, of a diameter sufficiently large to enable it to pass over the tubular attaching-bar A, and on the other side an attaching-iron, *c*, which is rigidly secured to the outer end of the bar B.

Now, my thill attachment, constructed as above described, is operated by sliding the eye of the attaching-iron *a* over the attaching-bar A, and at the same time inserting the end of the second bar B into the interior of the bar A. And when this bar is wholly within the bar A, then the thills will be directly in front of the runners, as shown in Fig. 1, and when the bar B is drawn outward then the thills are at one side of the center of the runners. To retain the thills in the desired position, whether it be in front of the runners or at one side, any suitable mechanical device may be employed, such as a pin or hook, or nut, or collar, or, as shown in the drawings, a fin or spline, *d*. If the pin is employed, (and this, perhaps, is the most satisfactory means,) gates *e* may be formed in the spline, and gates *f* in the attaching-iron *a*, so that when adjusting the thills the gate in the attaching-iron *a* will permit the passage of the pin through it, as the iron is moved along the surface of the attaching-bar. And when either of the gates *e* is reached, the eye *b* in the attaching-iron *a* will move freely on the attaching-bar A, as in ordinary thills; and, at the same time, the fin *d* will retain the thills within the desired position until it is intended to readjust them from front to one side, or vice versa, when the thills are turned so as to bring the gate *f* in the attaching-iron *a* coincident with the spline *d*, when the adjustment is at once effected, and without trouble or loss of time.

The attaching-bar A may be of any desirable shape, such as cylindrical, square, or octagonal, and the second bar B may be either tubular or solid.

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

1. A thill attachment consisting of a tubular attaching-bar and interior bar, with a spline or fin secured to the tubular attaching-bar, in combination with one or more thill-irons, provided with gates formed in the eye or eyes thereof, substantially as and for the purpose described.

2. In a thill attachment, a tubular attaching-bar with a spline or fin, provided with one or more gates, substantially as and for the purpose described.

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Witnesses:
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