

United States Patent Office.

JOHN S. STEELE, OF ROCKINGHAM, VERMONT.

*Letters Patent No. 62,231, dated February 19, 1867.*

IMPROVEMENT IN SAND-BOX FOR CARRIAGE AXLES.

The Schedule referred to in these Letters Patent and making part of the same.

TO WHOM IT MAY CONCERN:

Be it known that I, JOHN S. STEELE, of Rockingham, in the county of Windham, and State of Vermont, have invented new and useful Improvements in Carriage Axles; and I do hereby declare the following to be a full and exact description of the same, reference being had to the drawings that accompany and form a part of this specification, in which—

Figure I is an exterior plan view.

Figure II is a sectional view.

Letter A the ordinary friction or wearing collar; letter B, axle; letter C an extra sand collar; letter D, housing or covering for the collars A and C; letter E, chamber or narrow space between A and C; letter F, pipe-box set in the hub.

My invention consists in a light extra sand collar C, placed upon a common axle a short distance from the wearing collar A. The chamber E thus formed by the collar A, collar C, and covering D, prevents the mud and dust from coming in contact with the wearing collar A. The housing or covering D is formed by an expansion and continuation of the pipe-box F, as the drawings clearly show.

What I claim as my invention, and desire to secure by Letters Patent, is—

The sand collar C and chamber E, in combination with the extended pipe-box F, for the purpose set forth.

JOHN S. STEELE.

Witnesses:

L. C. HUBBARD,

LUCIUS P. BARRY.

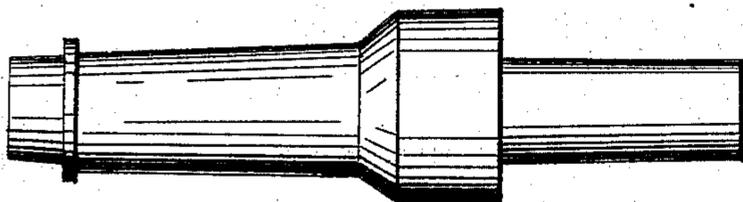
J. S. STEELE.

Sand-Band.

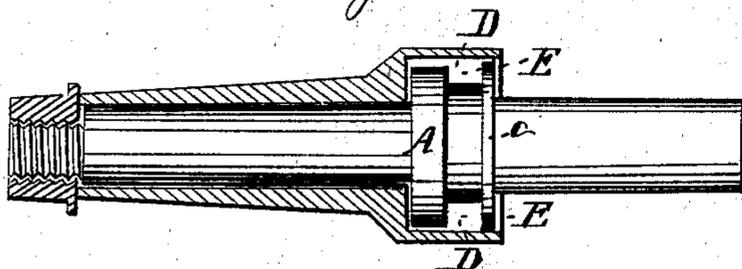
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*Fig. 1.*



*Fig. 2.*



*Witnesses.*

*E. H. Cook*

*Henry A. Wheeler*

*Inventor.*

*John S. Steele*