

A. B. Smith,

Horse Power,

N^o 81,833,

Patented Sept. 1, 1868

Fig. 1.

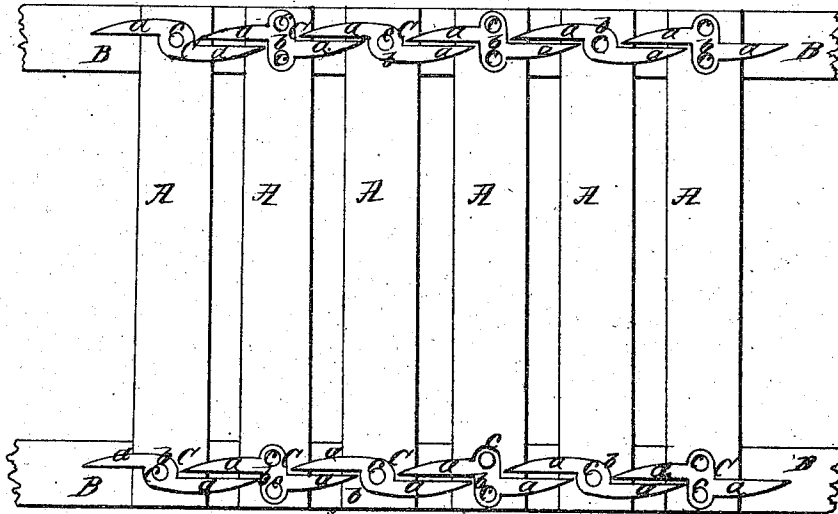


Fig. 2.

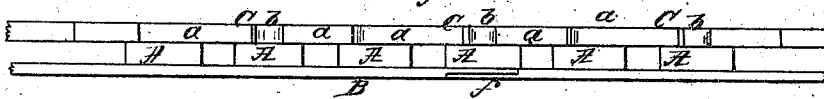


Fig. 3.

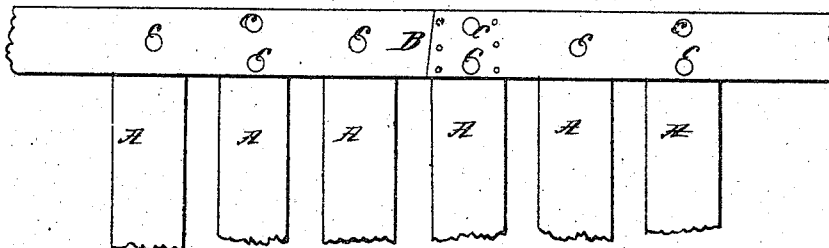
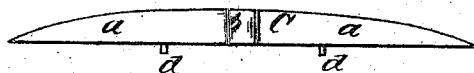


Fig. 4.



witnesses

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R. S. Turner*

Inventor.

*A. B. Smith.
By his atty.
J. S. Brown,*

United States Patent Office.

A. B. SMITH, OF ROCHESTER, PENNSYLVANIA.

Letters Patent No. 81,833, dated September 1, 1868.

IMPROVEMENT IN ENDLESS PLATFORM FOR CHURN-POWERS.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, A. B. SMITH, of Rochester, in the county of Beaver, and State of Pennsylvania, have invented an Improved Construction of Endless Platforms for Churn-Powers; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification—

Figure 1 being a top view of a portion of the endless-platform driver, in the construction of which my invention consists.

Figure 2, an edge view of the same.

Figure 3, a bottom view of a portion thereof.

Figure 4, a side view of a part detached.

Like letters designate corresponding parts in all of the figures.

The lags or cross-steps A A of the endless revolving platform or track, are secured at the two ends respectively to two flexible bands B B, preferably of leather or India-rubber belting, which take the place of chains or connecting-links.

In order to give firmness and rigidity against sagging to this platform, I employ a double series of stiffener-braces or cleats, C C, one for each lag, at each end, opposite to the connecting-bands respectively. Each brace (as represented) is composed of metal, has a central eye, *b*, to receive a rivet, *c*, whereby to attach it to the lag, and two fingers *a a*, one projecting transversely one way, and the other in the opposite direction, each far enough to lap over upon the adjacent lag, substantially as shown. It is apparent that as these projecting fingers lie close upon the surface of the lags, it keeps them in one plane, except where the platform bends inward, to which these braces offer no impediment. The fingers of adjacent braces are shaped so as to lap by one another, substantially as shown, though their form may vary therefrom at pleasure, provided they accomplish the effect intended, as set forth.

The same rivet *c* which attaches a brace to the lag, may pass also through the connecting-band, thus uniting all parts together. Where there is a splice in the band, as at *f*, there may be two eyes in the brace, to receive two rivets, as shown, and any number or all of the braces may have double eyes if preferred.

The braces may be cheaply made of cast iron. They are applicable to horse and other animal-powers, as well as for the specified use set forth, in which the power of dogs or other small animals is employed for churning and other light work.

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

The metallic braces or cleats C C, applied to the endless platform, substantially as and for the purpose specified.

The above specification signed by me, this thirteenth day of May, 1868.

A. B. SMITH.

Witnesses:

J. B. SMITH,
W. W. MAIR.