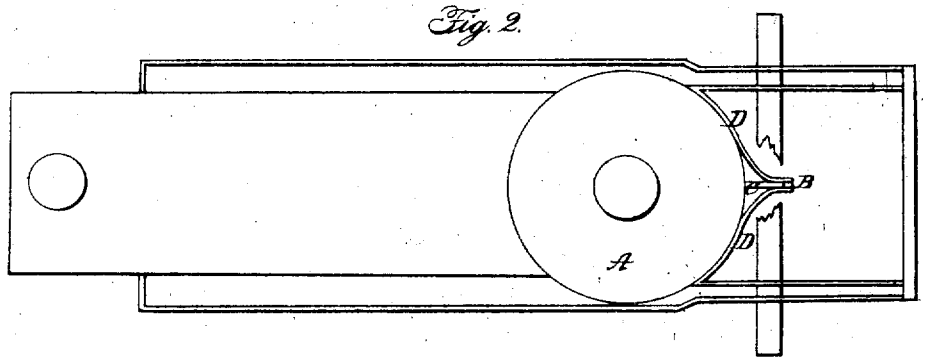
C. & G. E. SELLERS.

Car Propeller.

8839X

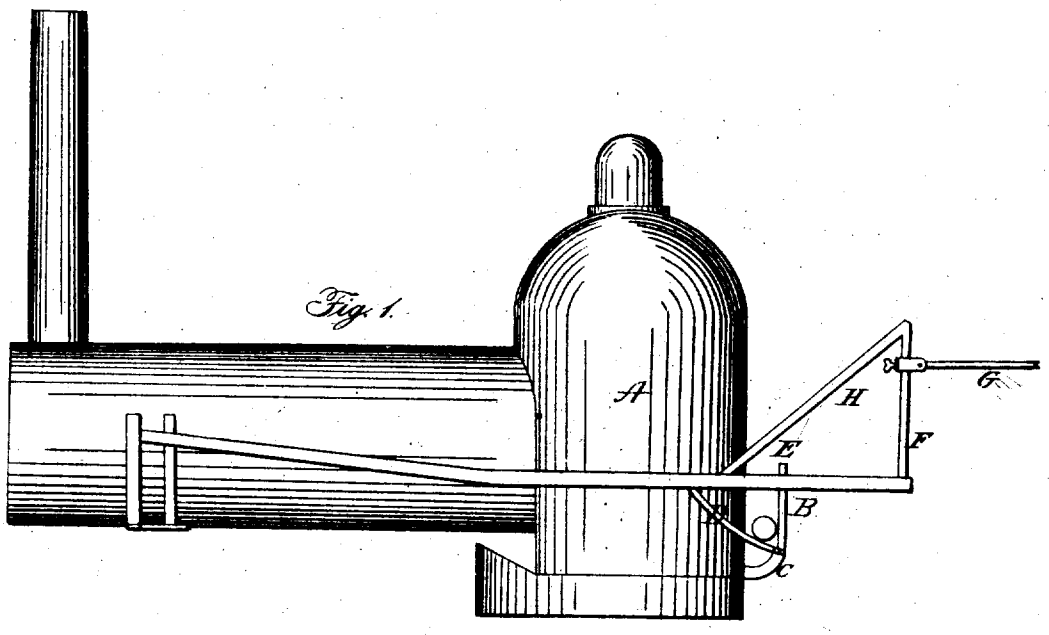
Patented May 22, 1835.

Fig. 2.



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Fig. 1.



8839X May 22. 1835 1 429.

Charles Kelley & George Kelley of Philadelphia

Letters Patent

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Charles Kelley and George Ezard Kelley themselves of their improvement in the construction of Locomotive Engines

To all whom it may concern. Be it known that We Charles Kelley and George Ezard Kelley of the City of Philadelphia and State of Pennsylvania, have invented a mode of increasing the adhesion of the bind or working wheels in Locomotive Engines to the rails, whereby they are enabled to draw trains of Cars upon ascendings, hacky or declivities above, without that imperfection they would render on the rails without adhering, and we do hereby declare that the following is a full and exact description thereof. The principal upon which we proceed in increasing the adhesion to the rails of a Rail Road, of the bind or working wheels of a Locomotive Engine, is the so coupling the Cars containing the load to be drawn to the body of the Locomotive Engine as that the load by its action upon a lever or standard shall tend to raise the fore end of the Locomotive in any desired degree, and thus to lessen the pressure upon the fore, and transfer the same to the bind wheels. The arrangement of the parts by which this end may be attained, is capable of much variation, but the principle will be rendered evident by reference to the accompanying drawings in which fig 1. represents a side view, and fig 2. a plan of so much of the Locomotive Engine and frame work as is necessary for the present description. The wheels of the Locomotive are not shown as they would obstruct the view of the parts particularly to be described. A in the frame work of the body of the Locomotive. B is a lever or standard attached in metal de lever and C the body of the frame and strengthened and sustained by the brace E. from the upper end C. of the lever a similar rod or other contrivance is to extend to the end of the train of Cars. Instead of attaching the lever or standard to the body of the frame it may be attached to frame by which

it is intended and shown at a, upon which a journal rod G is secured to which may be made to slide up or down so as to increase or decrease ... The Leverage. H is a brace to F having thus fully described the principle of our said Invention, we wish it to be distinctly understood that we do not intend to limit ourselves to any particular form or manner of constructing the parts concerned in producing the intended effect, but what we claim as our invention and wish to secure by Letters Patent, is the connecting to a Locomotive Engine the load to be drawn by it in such a manner as to throw a larger portion of the weight of the Locomotive upon the hind wheels than they are ordinarily intended to sustain, in the manner or upon the principle herein before set forth.

Witnesses
M. H. Edson
Peale
Hayes.

Chas. Hellers
Geo. Ebel Hellers

(Drawing) (602 words)