

G. G. HICKMAN.

Spoke-Socket.

No. 54,155.

Patented Apr. 24, 1866.

Fig. 1.

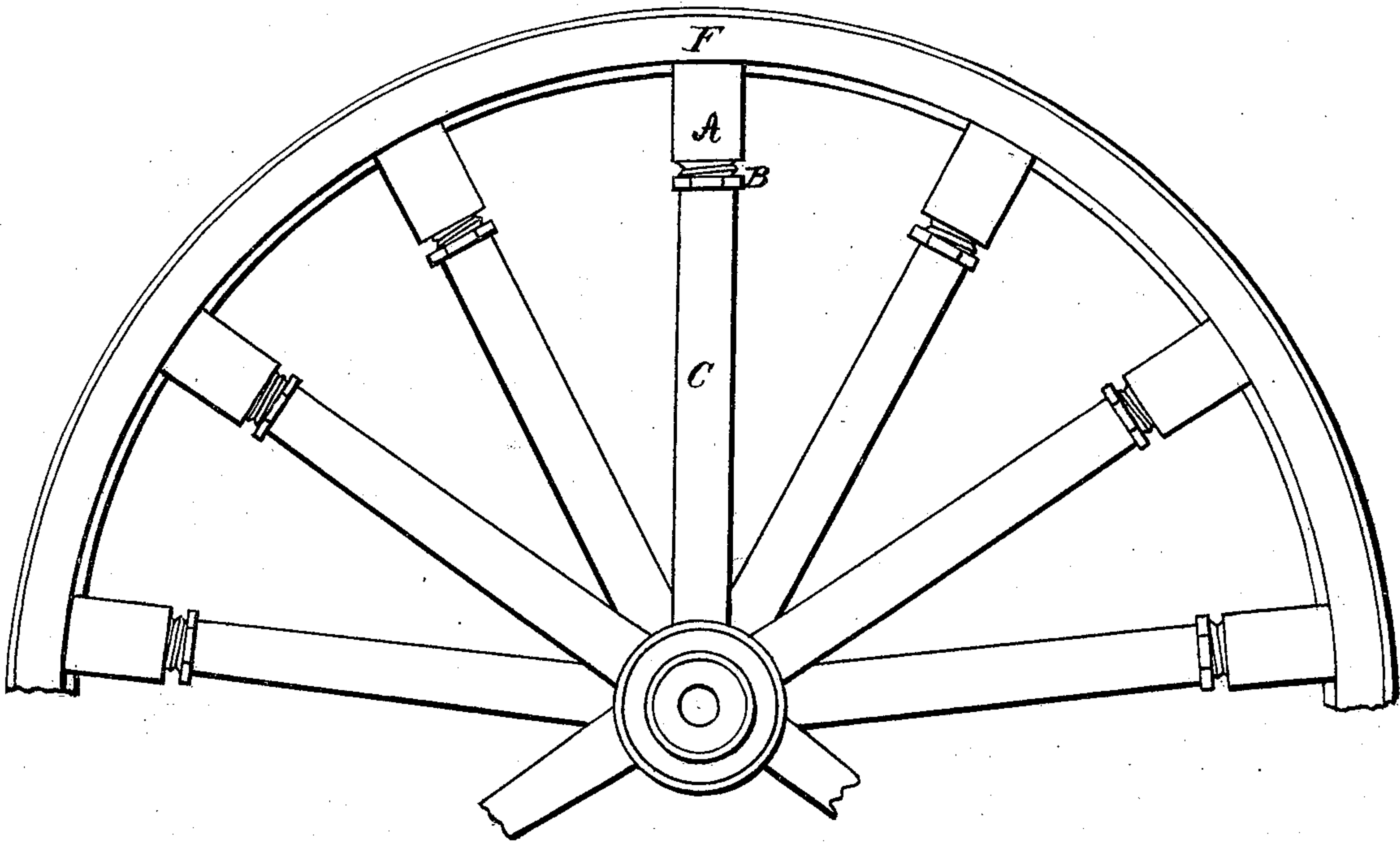
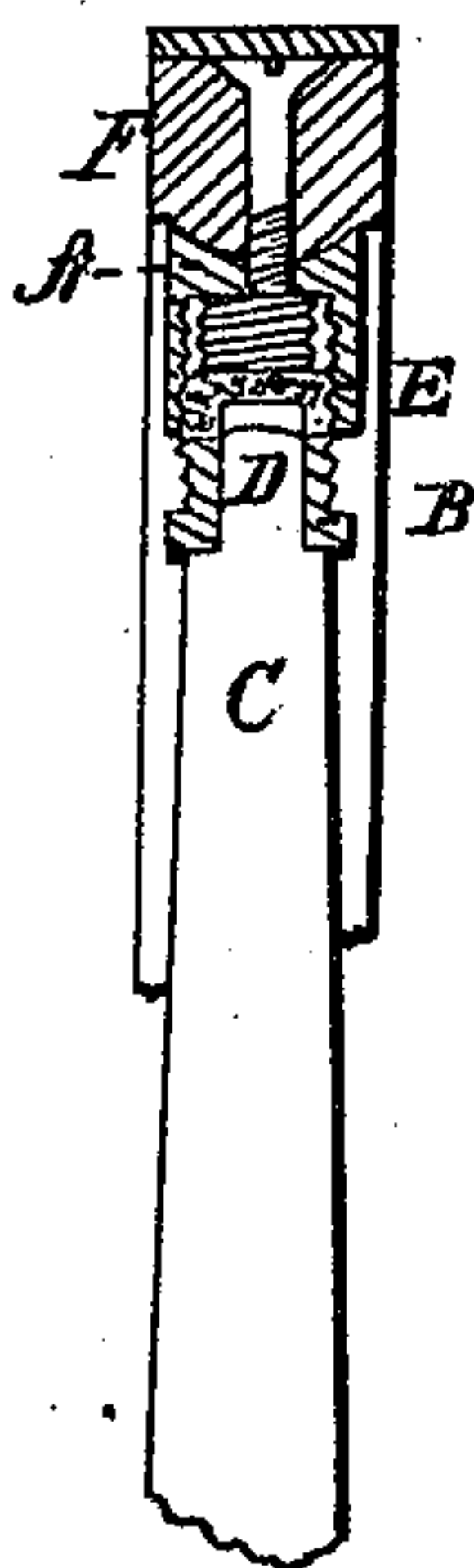


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

G. G. HICKMAN, OF COATESVILLE, PENNSYLVANIA.

IMPROVEMENT IN CARRIAGE-WHEELS.

Specification forming part of Letters Patent No. **54,155**, dated April 24, 1866.

To all whom it may concern:

Be it known that I, GIBBONS G. HICKMAN, of Coatesville, in the county of Chester and State of Pennsylvania, have made a new and useful Improvement in the Construction of Carriage-Wheels; and I do hereby declare the following to be a full, clear, and exact description of the nature, construction, and operation of the same, sufficient to enable one skilled in the art to which it appertains to construct and use the same, reference being had to the accompanying drawings, which are made part of this specification, in which—

Figure 1 is a side view of a portion of a wheel. Fig. 2 is a sectional view of a spoke and felly on a line at right angles to the view, Fig. 1.

The same letters refer to like parts in the different figures.

The invention consists in an arrangement for spreading the fellies outwardly for the purpose of tightening the tire, and its peculiar feature of novelty is to be found in a concave-faced socket, A, whose face fits the rounded inner edge of the felly, and whose threaded interior engages with the screw on the exterior of the cap B, which fits over the tenon and abuts against the shoulder of the spoke.

The advantages of this arrangement are as follows: It needs but a small hole in the felly to enable it to maintain its position, while many other devices for the same purpose weaken the

felly materially at this point. It embraces the felly laterally, so as to keep it from splitting, which is sure to occur when a pressure is brought to bear upon the felly without lateral support. The sides of the socket may be made to embrace the felly out as far as the tire, if necessary. When placed over the joints of the felly the latter are prevented parting laterally, or "dingeing," as it is called. This is a common fault. The rubber E, at the end of the spoke inside of the cap B, maintains its position and serves to moderate the jar of concussion.

It will be perceived that by this arrangement I avoid making holes through or deeply into the felly, or setting a socket or thimble into the same, which is very weakening, as it necessarily makes the fellies very thin at those points. I have also avoided making a large number of parts.

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

The combination of the concave-faced hollow socket A, laterally sustaining the sides of the felly, with the hollow threaded cap-piece B, the elastic material E, spoke C, and felly F, arranged and operating substantially as described and represented.

Witnesses: G. G. HICKMAN.

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