

EDWARD MARSLAND.

Improvement in Link-Blocks for Slide-Valves.

No. 125,970.

Patented April 23, 1872.

Fig. 1.

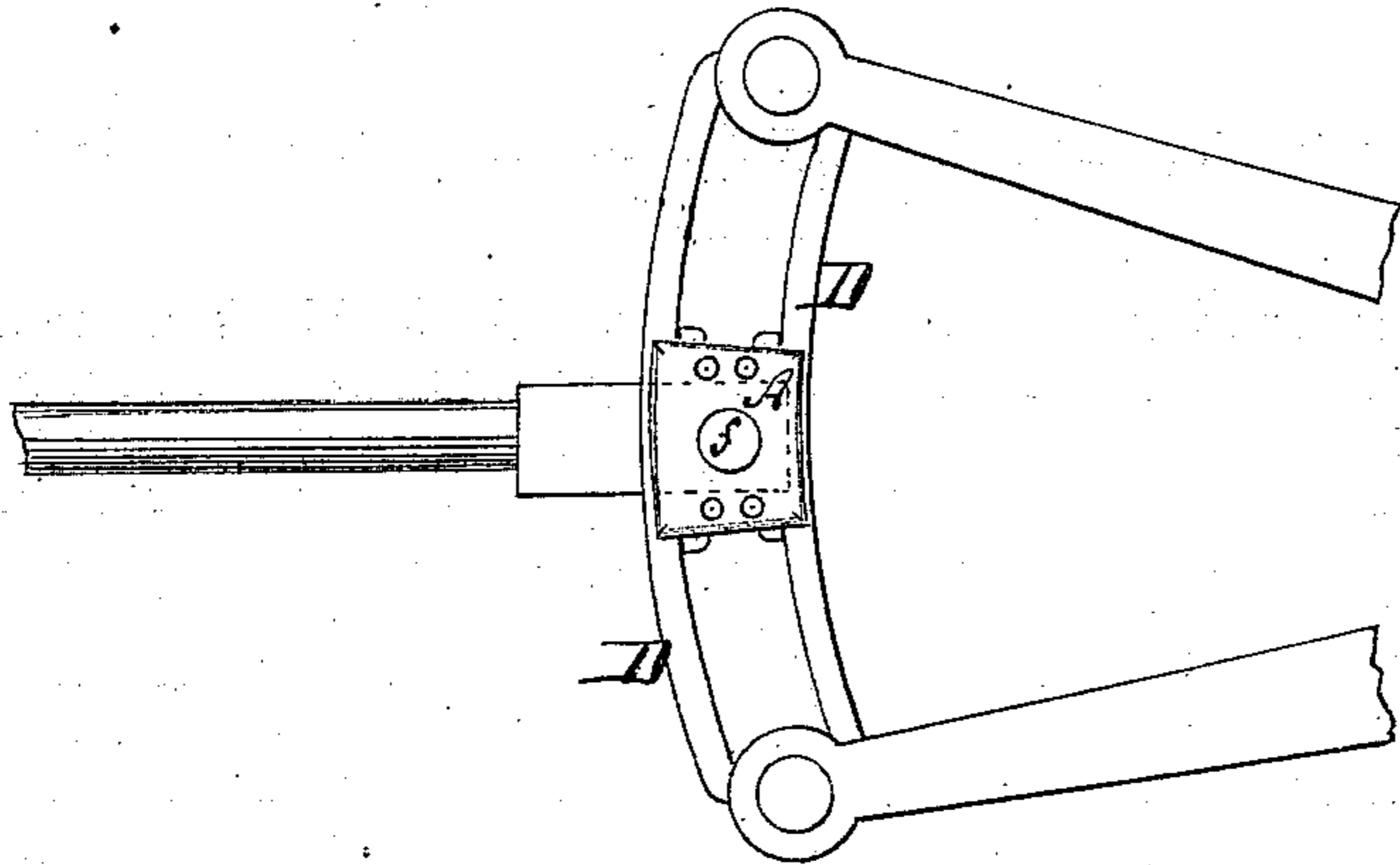


Fig. 2.

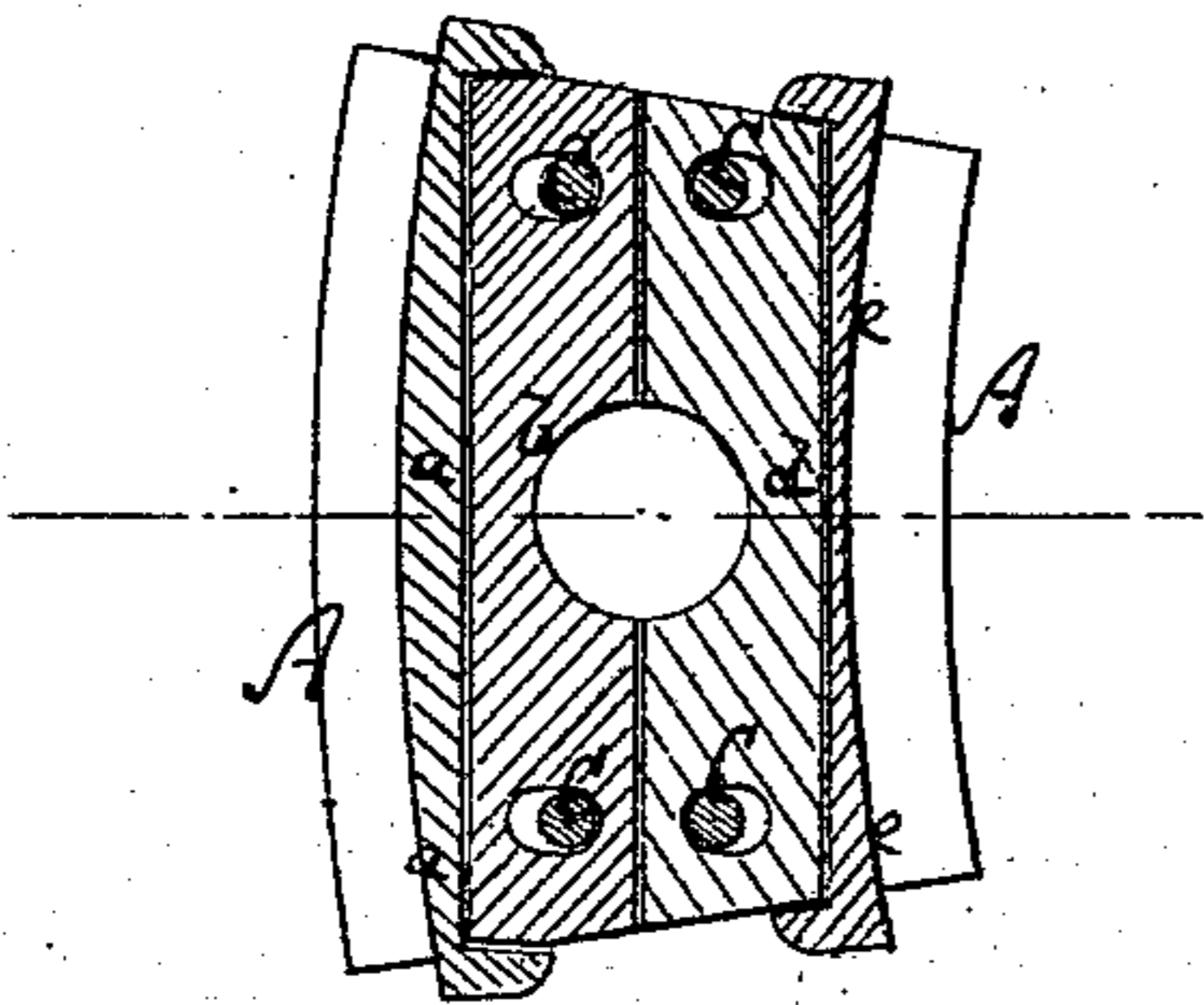
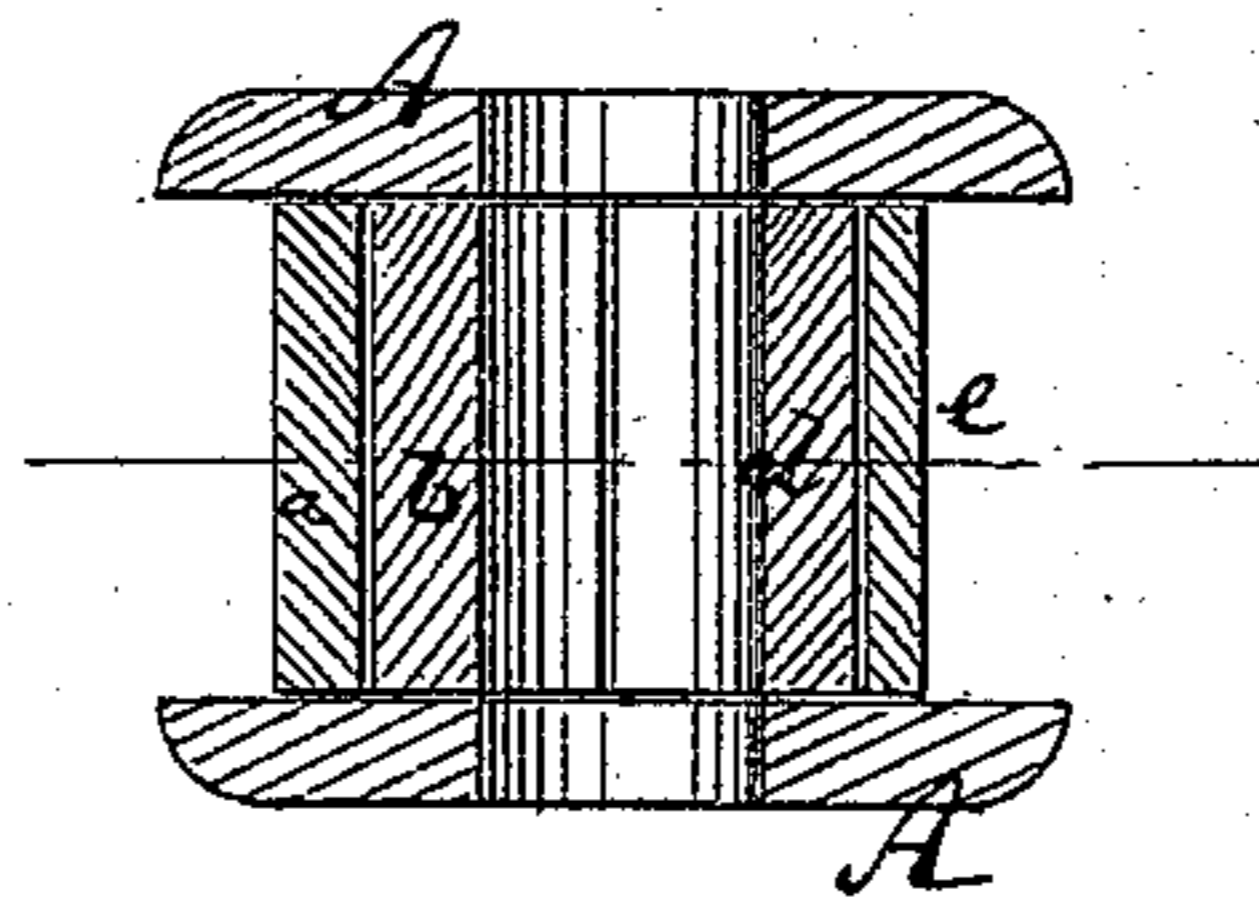


Fig. 3.



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EDWARD MARSLAND, OF SING SING, NEW YORK.

IMPROVEMENT IN LINK-BLOCKS FOR SLIDE-VALVES.

Specification forming part of Letters Patent No. 125,970, dated April 23, 1872.

Specification describing a new and Improved Link-Block for Slide-Valve Engines, invented by EDWARD MARSLAND, of Sing Sing, in the county of Westchester and State of New York.

Figure 1 represents a side view of my improved link-block. Fig. 2 is a vertical transverse section, and Fig. 3 a horizontal central section of the same.

Similar letters of reference indicate corresponding parts.

This invention has for its object improvements in methods of construction heretofore adopted to counteract the reduction in the size of a link-block occasioned by wear; and it consists in making the same expansible and contractible—that is to say, making it in sections—so that it may be enlarged to fit the curved guides, or made to firmly embrace the pin that connects it with the valve.

The invention is applicable to all link-blocks for slide-valve engines used on locomotives and other machinery.

A A in the drawing are the side plates of the link-block. B is the link-block proper, and C C are the bolts, whereby the side plates are fastened to the block. The side plates project beyond the inner and outer edge of the block to form the grooves, whereby the block is guided on the curved frame D in the usual manner. The block proper is composed of four parts, *a*, *b*, *d*, and *e*, clearly shown in Fig. 2. The middle pieces *b d* form between them the opening for the reception of the pin

f, by which the block connects with the valve. The outer pieces *a* and *e* have hooks at their ends to overlap the pieces *b d*, as in Fig. 2, and have their exterior surfaces shaped convex and concave, respectively, to properly fit the frame D. The blocks *b d* are slotted where the bolts C pass through them to permit their lateral adjustment on said bolts. Whenever the link-block wears on the frame D, or the latter on the former, so as to make the block work loose in the frame, it is readily enlarged to resume the former exact fit by inserting a plate of metal or fabric between the parts *a* and *b* or *d* and *e*. By the same means the parts *b d* can be crowded against the pin *f* to embrace the same sufficiently tight. All this adjustment can be effected without difficulty, and even while the engine is in operation, by detaching one of the face plates A, and interposing the material for expanding the link-block or contracting it on the pin *f*, in the required manner.

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

In combination with a guiding-frame the improved link-block, formed of the slotted blocks *b d*, pins or bolts C C, hooked plates or pieces *a e*, and side plates, all arranged as specified.

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Witnesses:

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