

T. J. Rowley & W. Poland's Lubricating Box for Cranks &c.

PATENTED

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Fig 2

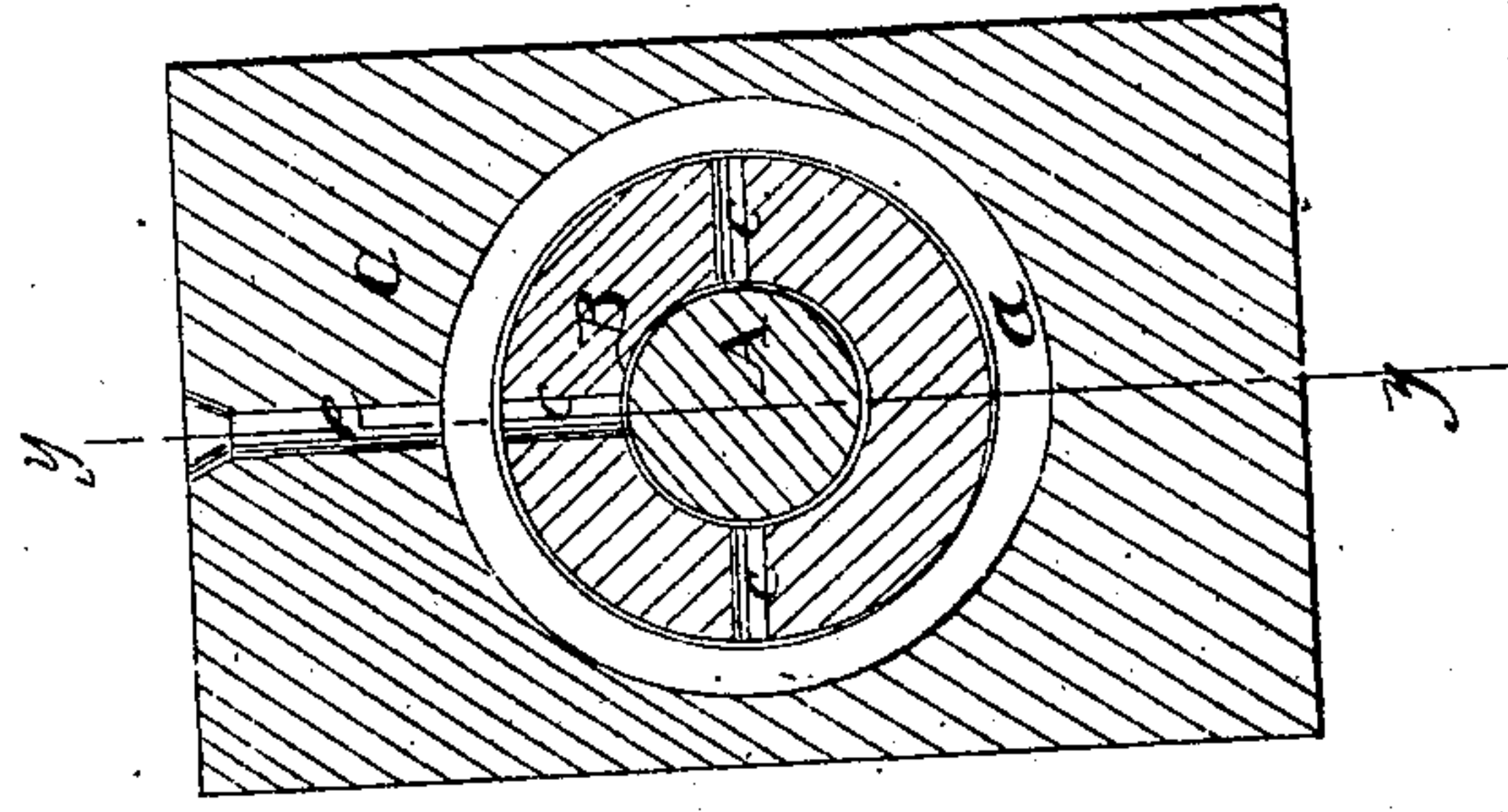
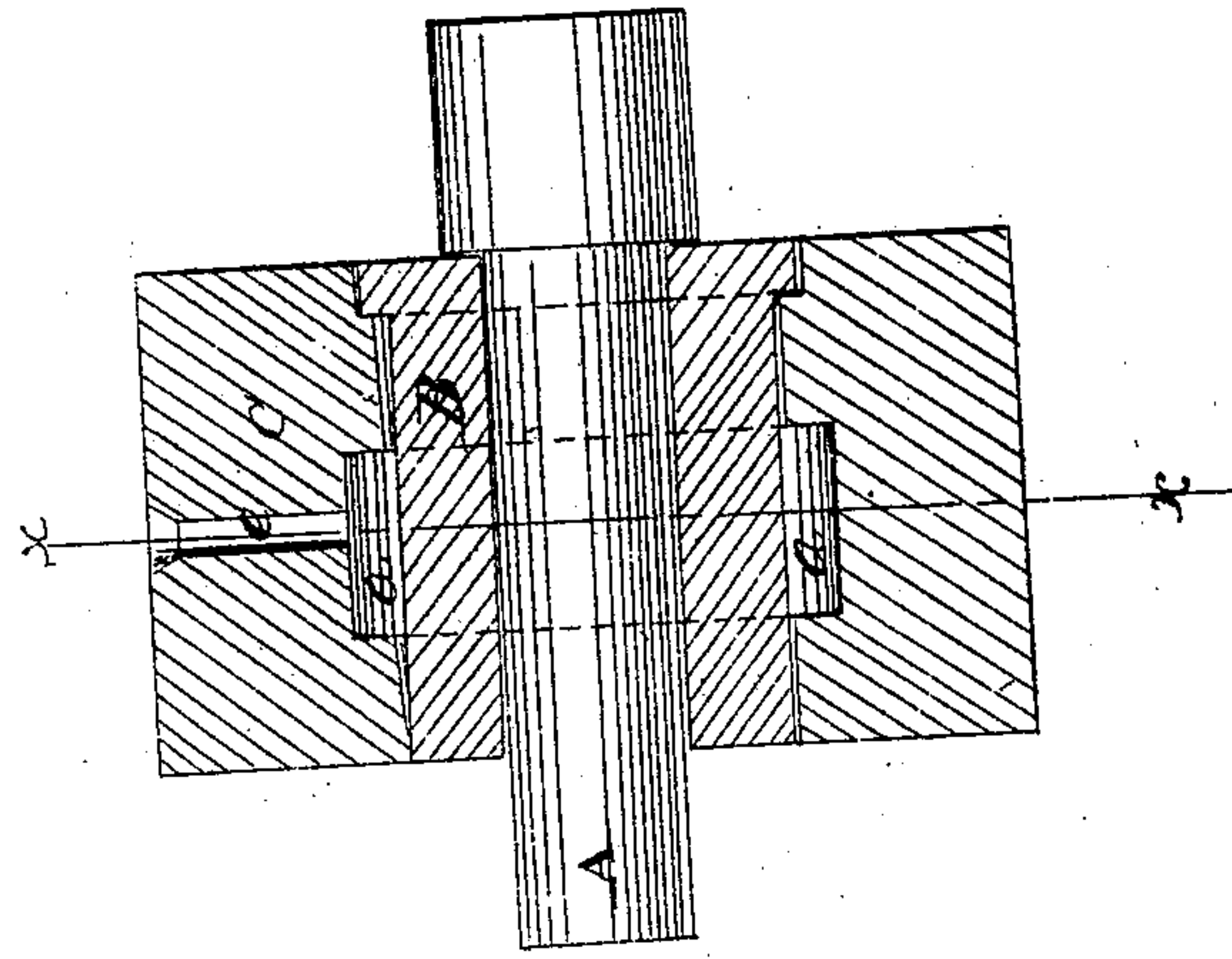


Fig 1



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75465

United States Patent Office.

THOMAS J. ROWLEY AND WILLIAM POLAND, OF CHILLICOTHE, OHIO.

Letters Patent No. 75,465, dated March 10, 1868.

IMPROVEMENT IN LUBRICATING-BOXES.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that we, THOMAS J. ROWLEY and WILLIAM POLAND, of Chillicothe, in the county of Ross, and State of Ohio, have invented a new and useful Improvement in Lubricating-Box for cranks, crank-pins, and journals; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a central longitudinal section of our improved lubricating-box, attached to a crank-pin or journal, through the line *y y*, fig. 2.

Figure 2 represents a cross-section through the line *x x*, fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to feed the oil for lubrication of cranks, crank-pins or wrists, and journals in stationary bearings; and the improvement consists in fitting a thimble or sleeve upon the journal or wrist for it to run in, in which thimble are holes for the admission of oil from a ring-chamber within a box fitted upon the thimble, as hereinafter fully described.

A represents a crank-pin or the wrist of a locomotive-link, on which is fitted loosely a thimble or sleeve, B, which is also fitted within a box, C, in the middle part of which box is an annular oil-chamber, *a*, surrounding the thimble B. The thimble B is perforated with holes, *c c*, as many as required, and the box C is perforated with a hole, *e*, on the upper side, communicating with the oil-chamber *a*, for the purpose of filling it.

The chamber *a* is to be charged with oil, which passes through the feeding-holes *c c* in the thimble B, which fits closely upon the wrist A, so that no excess of oil can escape, while the rubbing-surfaces will always be supplied with oil sufficiently to keep them perfectly lubricated.

The oil will be kept perfectly free from dust and dirt by closing the filling-aperture *e* with a stopple, which may or may not be used, as the annular chamber will be filled with cotton to filter the oil.

Having described our invention, we claim as new, and desire to secure by Letters Patent—

The lubricating-box C, when provided with the central annular chamber *a* surrounding the central portion of the thimble-box B, and communicating with the wrist A by means of the transverse openings *c*, all constructed and arranged, as described, for the purpose specified.

THOMAS J. ROWLEY,
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Witnesses:

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