

W. P. DUGDALE.

Improvement in Universal Shaft Coupling.

No. 123,464.

Patented Feb. 6, 1872.

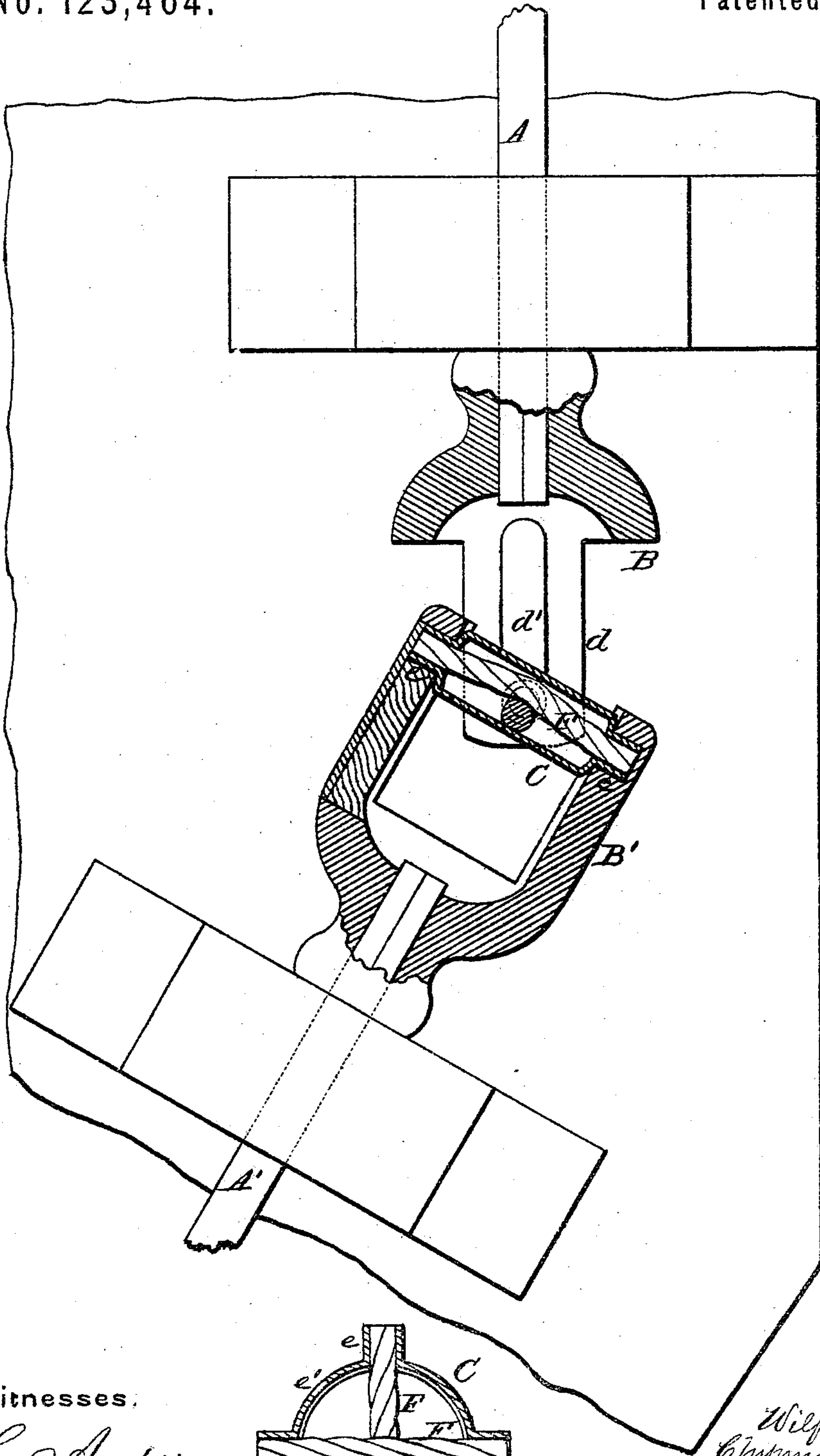


Fig. 1.

Witnesses.

*S. Anderson*  
*Villette Anderson.*

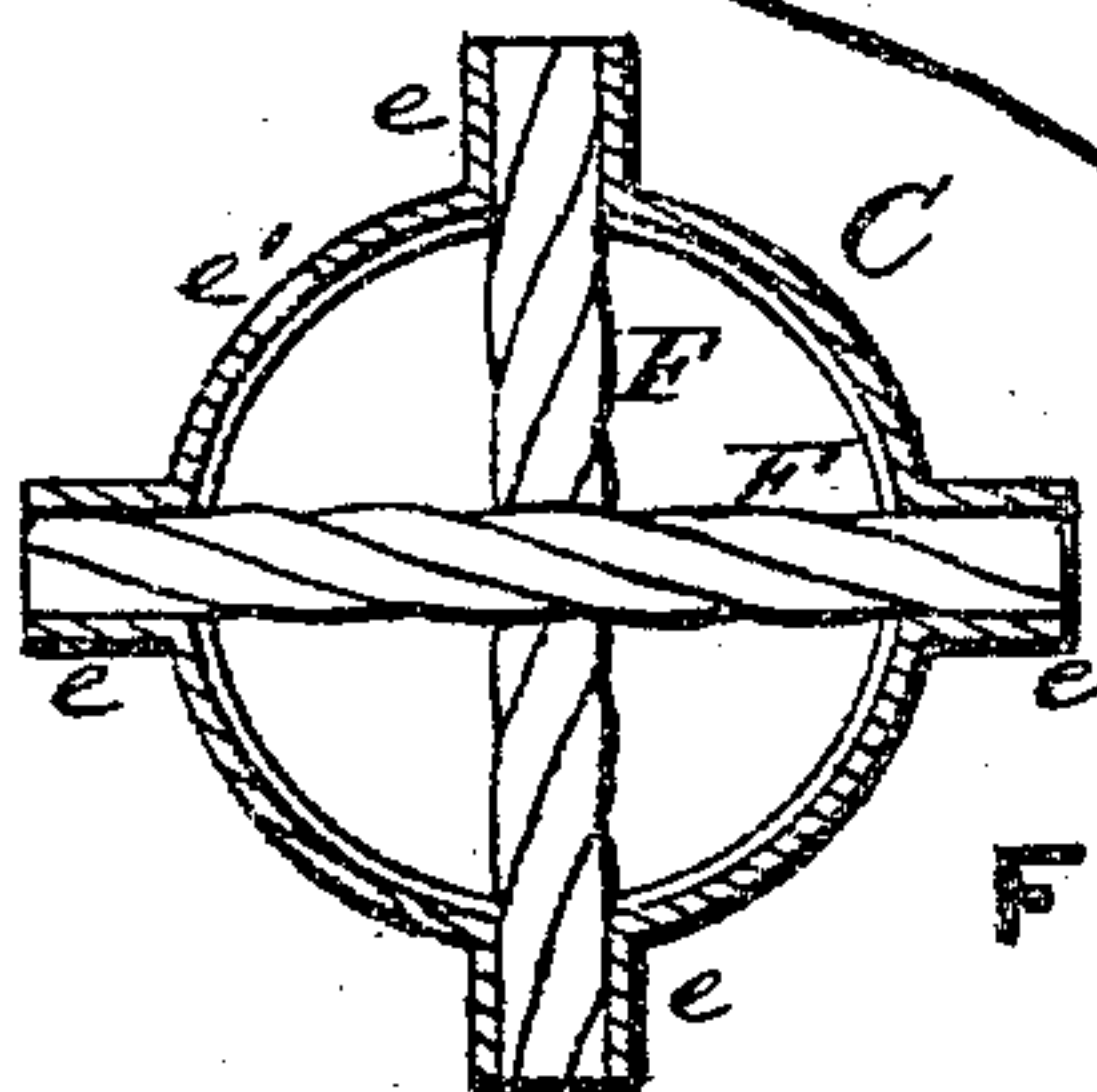


Fig. 2

Inventor.

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# UNITED STATES PATENT OFFICE.

WILFRED P. DUGDALE, OF GOSHEN, INDIANA.

## IMPROVEMENT IN UNIVERSAL SHAFT-COUPPLINGS.

Specification forming part of Letters Patent No. 123,464, dated February 6, 1872.

*To all whom it may concern:*

Be it known that I, WILFRED P. DUGDALE, of Goshen, in the county of Elkhart and State of Indiana, have invented a new and valuable Improvement in Universal Shaft-Couplings; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a longitudinal central section of my invention. Fig. 2 is a central section through swivel-block.

This invention has relation to universal shaft-couplings; and the novelty consists in the construction of a hollow swivel-block adapted to hold oil, and in the arrangement of oil-wicks, by which the oil is conducted to the journal-bearings, all as hereinafter described.

Referring to the accompanying drawing, A A' represent two sections of shaft coupled by the universal coupling, which consists of the forked sockets B B' and the swivel-block C. In one of the arms *d* of each of the sockets B B' a longitudinal channel, *d*<sup>1</sup>, is cut for the purpose of allowing play to the journals of the swivel-block. The swivel-block is hollow, and is constructed with four tubular journals, *e*, and with a top, *e'*. Through said top the block C is filled with lubricating oil, which is conducted, with proper flow, to oil the bearings of the

journals by means of oil-wicks F, which pass through the block, as shown clearly in Fig. 2. The block C is arranged by placing two of the opposite journals in one socket and two in the other, one of the pair of journals in each socket being placed in the channel *d*<sup>1</sup> and the other in a suitable bearing-socket. In one of said channels is fitted a block of wood, *d*<sup>2</sup>, which is adapted in length to the amount of play which is to be given to the journal or to the relative angles of the shafts. This block of wood prevents the block C from having too much freedom, which would render it liable to displacement. Wood is used because it may be readily cut to any size desired. The top *e'* is closed by means of a screw or its equivalent.

I claim as my invention—

1. The hollow swivel-block C, having four tubular journals, *e*, and provided with the oil-wicks F, substantially as and for the purpose specified.

2. The coupling, consisting of the forked sockets B, provided with the blind bearings, and of the hollow swivel-block *e*, having the wicks F, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILFRED P. DUGDALE.

Witnesses:

HENRY A. GORE,  
I. F. TIEDERMANN.