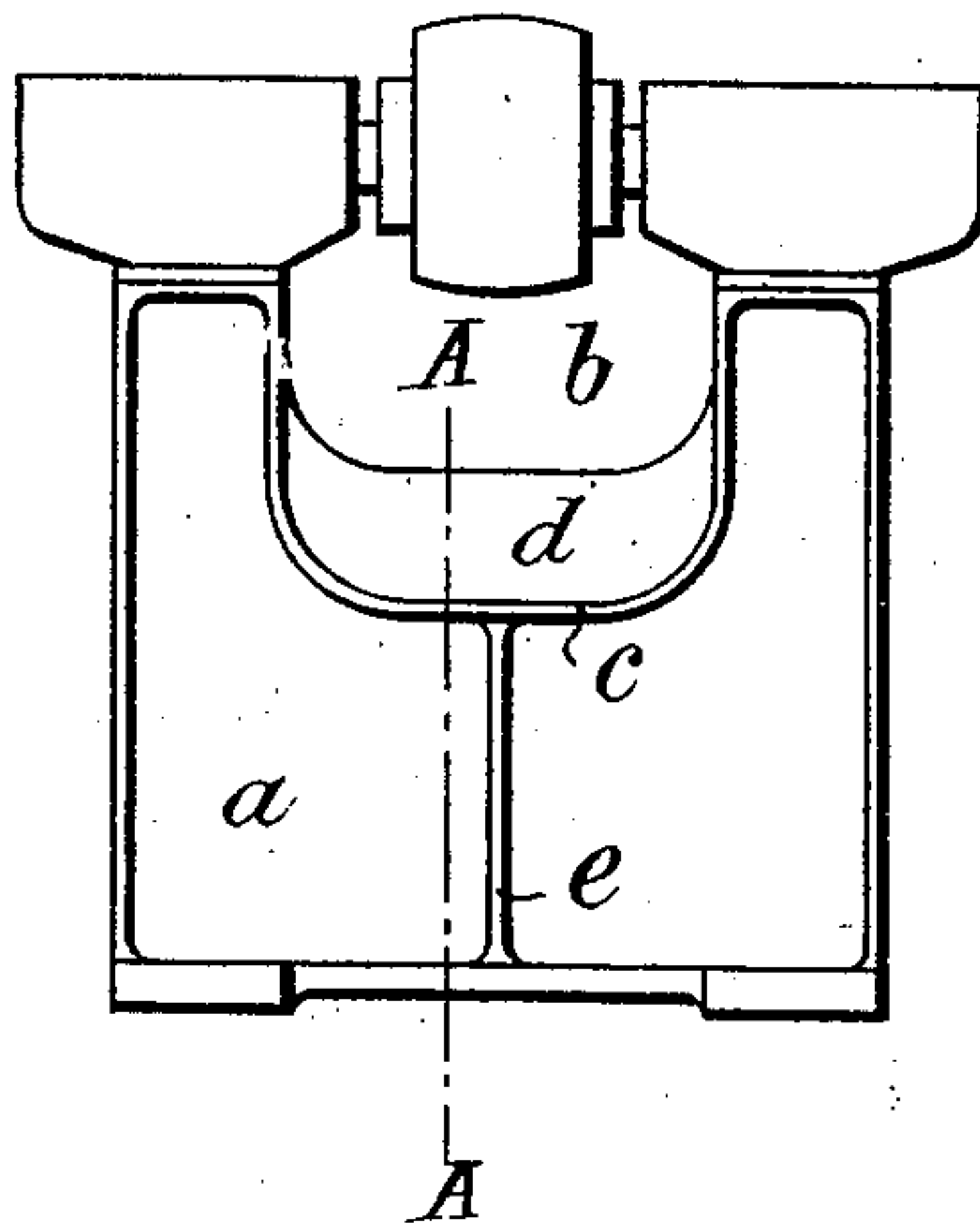


S. C. DAVIDSON.  
PEDESTAL BEARING.  
APPLICATION FILED JUNE 8, 1907.

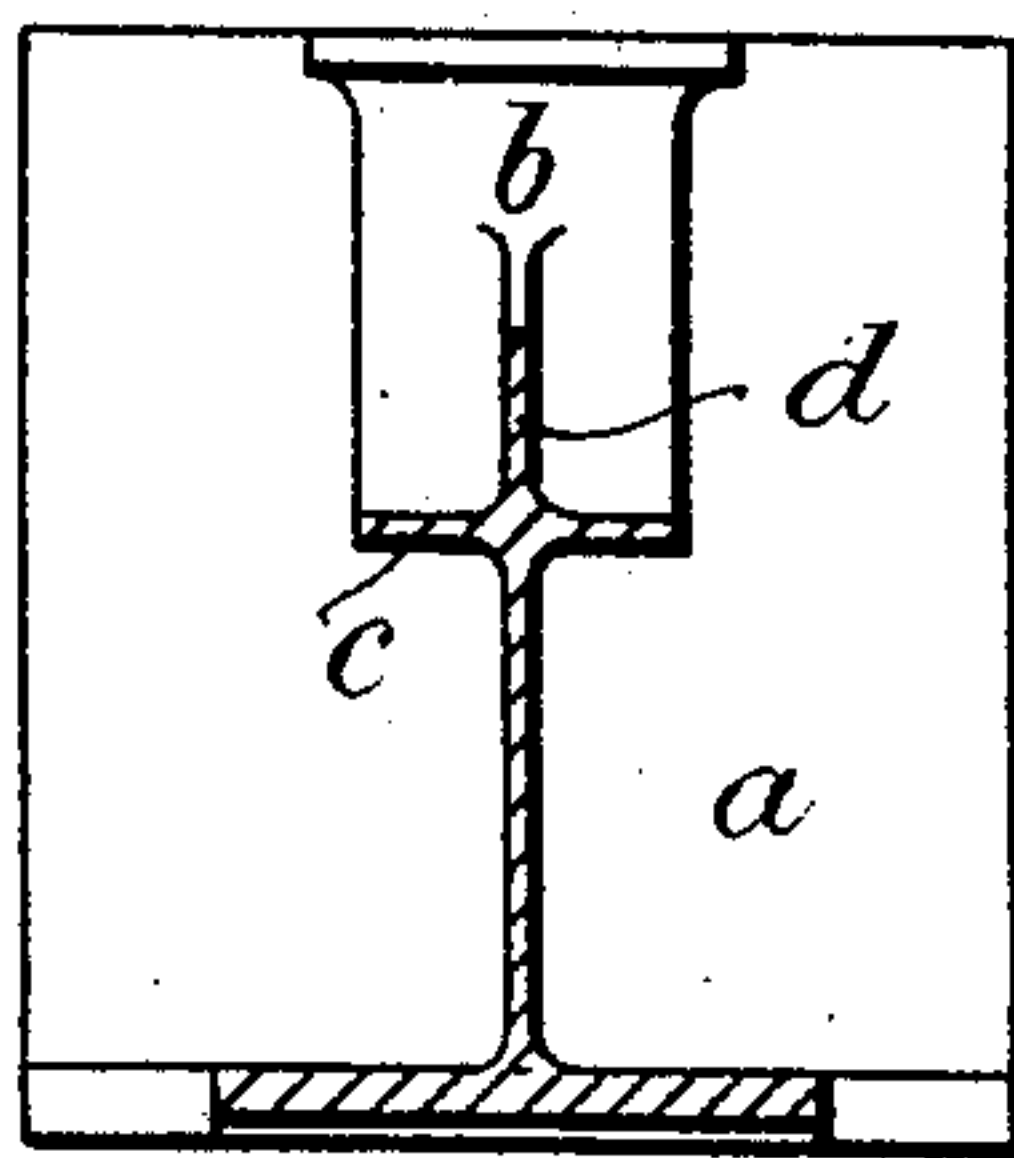
898,632.

Patented Sept. 15, 1908.

*Fig. 1.*



*Fig. 2.*



WITNESSES:

*Fred White*  
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# UNITED STATES PATENT OFFICE.

SAMUEL CLELAND DAVIDSON, OF BELFAST, IRELAND.

## PEDESTAL-BEARING.

No. 898,632.

Specification of Letters Patent.

Patented Sept. 15, 1908.

Application filed June 8, 1907. Serial No. 378,031.

*To all whom it may concern:*

Be it known that I, SAMUEL CLELAND DAVIDSON, of Sirocco Engineering Works, Belfast, Ireland, merchant, have invented certain new and useful Improved Pedestal-Bearings, of which the following is a specification.

This invention relates to bearing pedestals for shafts and is particularly applicable for the bearings of fan shafts.

The accompanying drawings illustrate a pedestal having my invention applied thereto.

Figure 1 is a side elevation. Fig. 2 is a section on A—A of Fig. 1.

*a* is a bearing pedestal which may be described as of U-shaped construction or as having a U-shaped gap *b* for the shaft pulley and driving belt between the bearings at each end. The pedestal has a base and a thin body portion, with flanges at its sides, as shown.

According to this invention in order to increase the rigidity of the pedestal across the said gap and without unduly restricting the angle at which the belt can pass from the pulley towards the floor I form in the gap and in addition to the ordinary transverse stiffening flange *c* which is of U shape and forms the boundary of the gap a web or fin *d* on the upper side of the flange *c*. The said web or fin *d* extends across the gap at right angles to the flange *c* and connects the upright sides of the gap so that a transverse vertical section through the pedestal on the line A—A Fig. 1 or on either side of the pedestal flange *e* will give a cruciform arrangement of flanges as shown in Fig. 2. The said fin *d* extends upwards as far as practicable without coming into contact with said driving belt for the shaft pulley and as the fin presents a narrow edge at right angles to the belt it can be brought up very close thereto. This construction gives great rigidity to the ends of the pedestal which carry the bearings and thereby insures stable alinement of the shaft in said bearings.

What I claim and desire to secure by Letters Patent is:—

1. A pedestal having a base, a top, a thin body portion extending upwardly from said base to said top, said body portion formed with a gap at its upper part, a lateral web extending along the edges of said gap, and a vertical web extending across said gap, and connecting the sides thereof together, said top having means for mounting a shaft longitudinally of said vertical web, and said gap being adapted to receive a shaft pulley, and to permit a downward extension of its belt.

2. A pedestal having a base, a top, a thin body portion extending upwardly from said base to said top, and formed with a U-shaped gap, a flange on each side of said body portion, a lateral web extending along the edges of said gap and a vertical web extending across said gap and connecting the sides thereof together, said top having means for mounting a shaft longitudinally of said vertical web, and said gap being adapted to receive a shaft pulley and to permit a downward extension of its belt.

3. A pedestal having a base, a top, a thin body portion extending upwardly from said base to said top, said body portion formed with a gap at its upper part, a lateral web extending along the edges of said gap, and a vertical web extending across said gap, and connecting the sides thereof together, said lateral web extending materially above the upper edge of said vertical web, and said top having means for mounting a shaft longitudinally of said vertical web, and said gap being adapted to receive a shaft pulley and to permit a downward extension of its belt.

In witness whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

SAMUEL CLELAND DAVIDSON.

Witnesses:

JOHN CLEAVER,  
SAMUEL WORD.