(No Model.)

W. D. DAVIS.

BEARING BOX FOR PITMEN.

No. 583,193. Patented May 25, 1897.

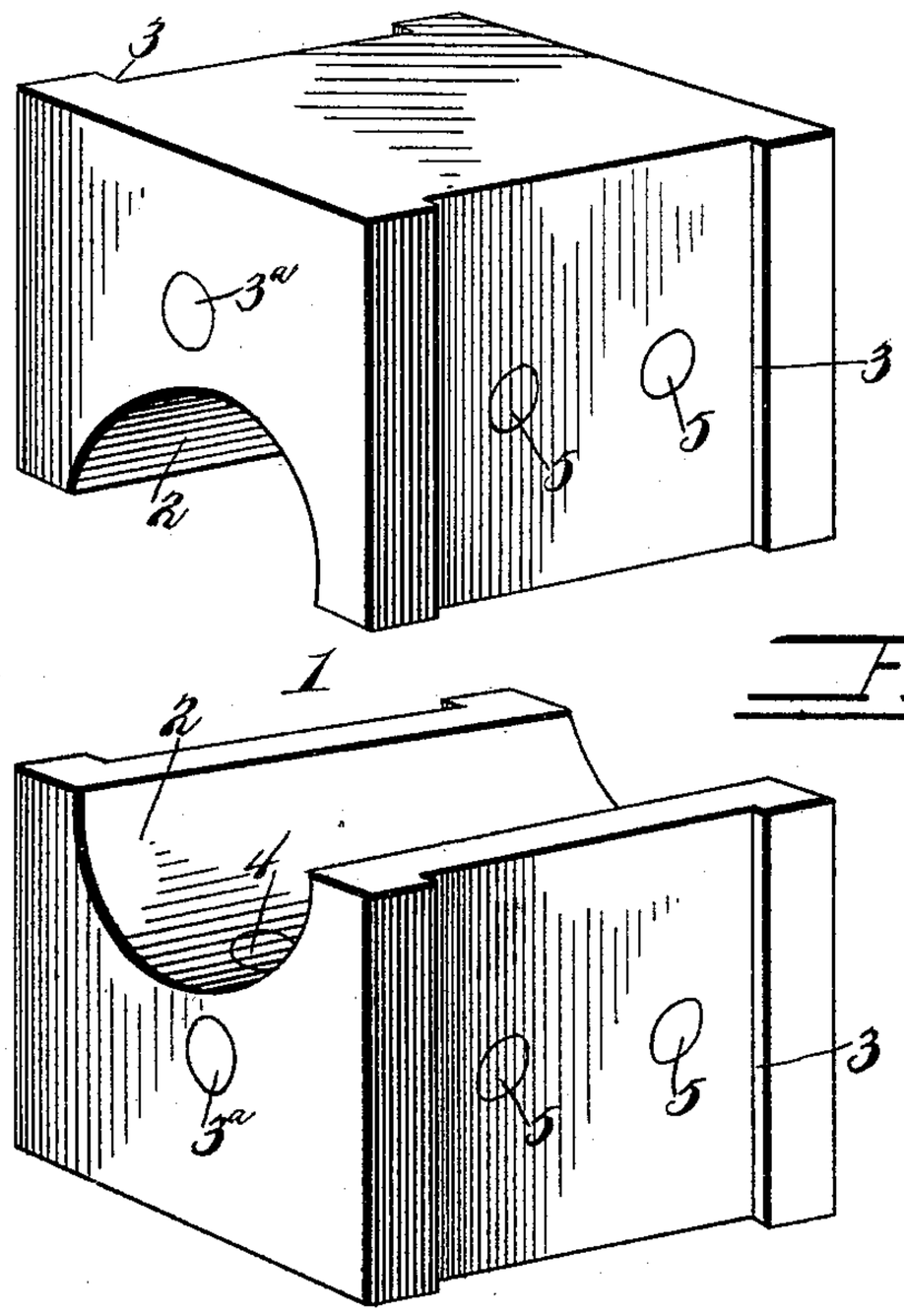


Fig. 1.

Fig. 2.

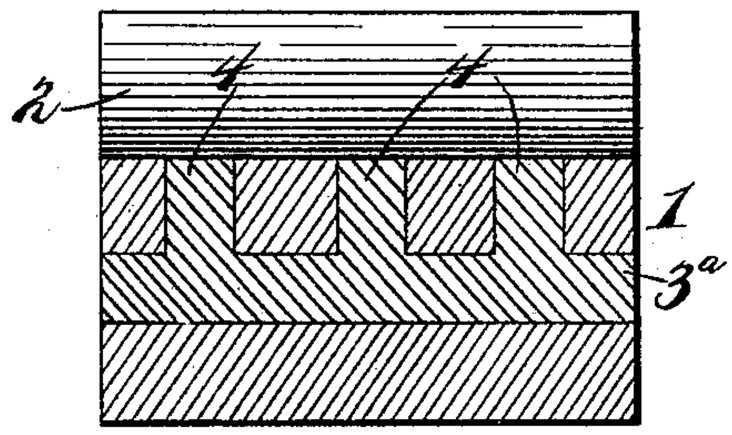
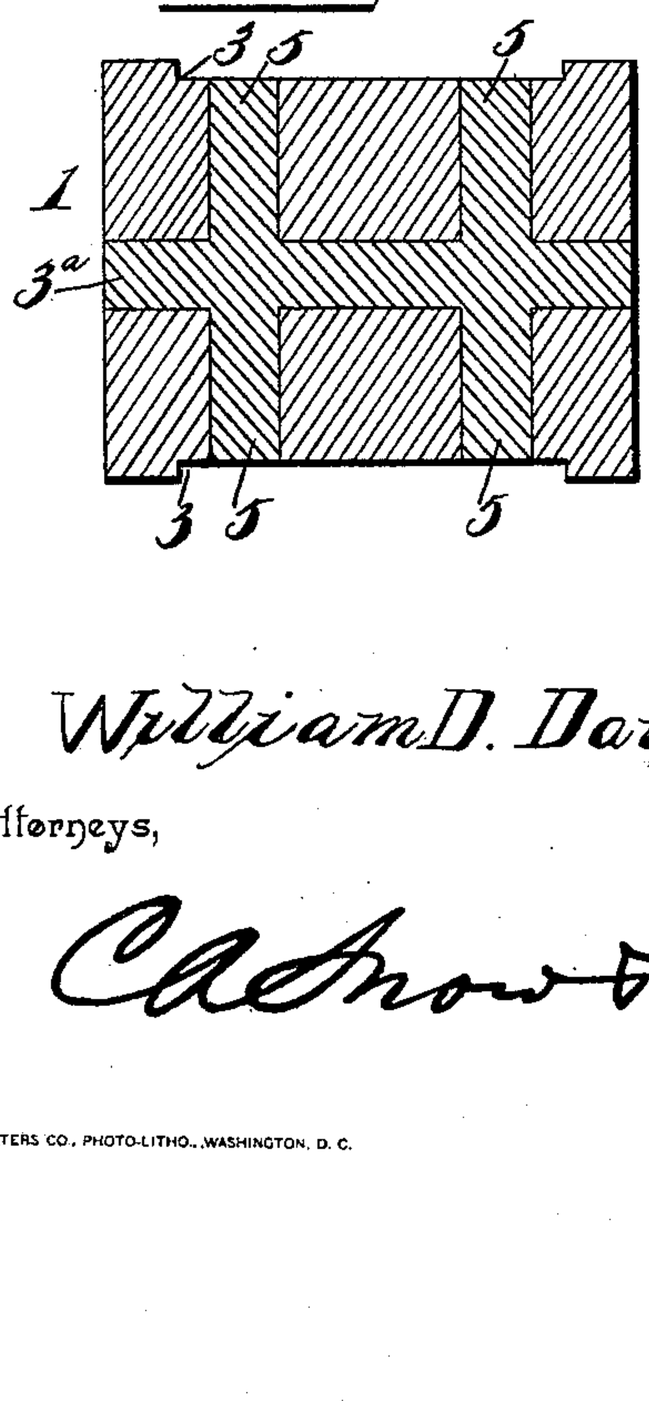


Fig. 3.



Inventor

William D. Davis.

Witnesses

R. A. Shepard.

T. C. F. Riley

By his Attorneys,

Cachow & Co.

UNITED STATES PATENT OFFICE.

WILLIAM D. DAVIS, OF STATESBOROUGH, GEORGIA.

BEARING-BOX FOR PITMEN.

SPECIFICATION forming part of Letters Patent No. 583,193, dated May 25, 1897.

Application filed March 31, 1897. Serial No. 630,133. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM D. DAVIS, a citizen of the United States, residing at Statesborough, in the county of Bullock and State of Georgia, have invented a new and useful Bearing-Box for Pitmen, of which the following is a specification.

The invention relates to improvements in bearing-boxes for pitmen.

The object of the present invention is to improve the construction of bearing-boxes for pitmen and to provide a simple, inexpensive, and efficient one which will be especially adapted for cotton-gins and which will be adapted to stand much compression and wear without becoming heated.

The invention consists in the construction and novel combination and arrangement of parts, as hereinafter fully described, illustrated in the drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a bearing-box constructed in accordance with this invention, the sections being slightly separated. Fig. 2 is a longitudinal sectional view of one of the sections. Fig. 3 is a similar view taken at right angles to Fig. 2.

Like numerals of reference designate corresponding parts in the several figures of the drawings.

1 designates a pitman bearing-box constructed of hard wood and composed of two similar sections having inner concave faces 2, which form a bearing-opening for a pin or journal, and the sections are provided at their side faces with recesses 3 for the reception of a suitable strap or frame for holding the bearing-box in position on a pitman. Each section is provided with a longitudinal bore, a series of inwardly-extending bores intersecting the longitudinal bore, and a series of transverse bores located at the intervals between the inwardly-extending bores to avoid weakening the sections. The bores or channels are filled with Babbitt metal, which forms a longitudinal rivet 3^a, a series of inwardly-extending rivets 4, and a series of transverse rivets 5, which support and strengthen the sections and prevent them from splitting, and they may be provided with suitable heads. The longitudinal rivet 3^a extends from one end of the section to the other, and the transverse rivets 5 also extend entirely through the section of the bearing-box, but the rivets 4 pass only about half-way through the section and extend from the longitudinal rivet, with which they are integral, to the concave bearing-face of the section, forming a Babbitt-metal surface, which is advantageous.

The bearing-box, which is especially designed for cotton-gin pitmen, is applicable to other bearings and it is adapted to be subjected to concussion and wear without becoming heated, and the Babbitt-metal rivets, besides contributing to the efficiency of the bearing, enables a bearing-box to be constructed of wood.

The Babbitt metal is poured into the bores in a heated condition to form the integral rivets or cores.

What I claim is—

1. A bearing-box constructed of wood and composed of sections, each section being provided with a series of bores arranged at right angles to the bearing-opening and intersecting the same, and with bores arranged at right angles to the said series of bores, and rivets or cores of Babbitt metal arranged in the said bores and supporting the sections, substantially as described.

2. A bearing-box constructed of wood and composed of sections, combined with the longitudinal rivets extending through the sections, the short inwardly-extending rivets arranged at right angles to the bearing-opening of the box, and the transverse rivets passing through the sections and located at the intervals between the short rivets, substantially as described.

3. A bearing-box constructed of wood and composed of sections, each section being provided with intersecting bores arranged longitudinally, transversely, and at right angles to the bearing-opening of the box, and the integral rivets arranged in the bores and supporting the sections, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WILLIAM D. DAVIS.

Witnesses:
J. L. OLLIFF,
E. B. SUMERLIN.