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R. T. TEAKLE

DROP HAMMER BOARD

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Inventor:

Robert T. Teakle

By

Attorneys.
UNITED STATES PATENT OFFICE.

ROBERT T. TEAKLE, OF DETROIT, MICHIGAN, ASSIGNOR TO DETROIT DROP HAMMER BOARD CO., OF DETROIT, MICHIGAN, A CORPORATION OF MICHIGAN.

DROP-HAMMER BOARD.

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This invention relates to a drop hammer board and my invention aims to provide a fabricated friction board that may be advantageously used between the friction rolls of a drop hammer for raising the upper head or die of the hammer. The fabricated friction board is composed of a plurality of bars or blanks having strips of leather or like material sandwiched therebetween and connecting the bars by glue or other adhesive substances, so that the bars are imperforate, somewhat pliable and afford a structure that possesses many advantages compared to a laminated board or one made of a single piece of material. Wide one-piece boards are difficult to obtain without imperfections and even at the best such boards crack or break and must be discarded.

In making my board of a plurality of bars, which can be easily obtained in perfect form, it is possible to renew one of the bars should it be injured without discarding the complete board. Again, the bars can be arranged, for instance on edge with the grain of the wood in a desired direction so that the bars will withstand considerable wear and readily cooperate with leather strips between the bars in providing friction surfaces to facilitate elevation of the board by the friction rolls of the drop hammer.

My invention will be hereinafter more fully described and reference will now be had to the drawing, wherein

Figure 1 is a diagrammatic front elevation of a drop forging hammer provided with my board;

Fig. 2 is a vertical sectional view of the same, and

Fig. 3 is a perspective view of a portion of the drop hammer board.

In the drawing, the reference numeral 1 denotes a plurality of bars, strips or blanks made of imperforate material, as a durable wood and each bar is substantially rectangular in cross section so that the bars may be arranged in parallelism and connected to form a board having flat friction faces.

For the purpose of connecting the bars 1 I use strips of leather 2 or other flexible material which is placed between the confronting faces of the bars and glued or otherwise secured thereto with the edges of the strips of leather exposed on the faces of the fabricated board, so that the exposed edges of the leather will contribute towards a friction face for each side of the board.

With the bars of the board of a small cross sectional area, the complete board will possess a requisite degree of strength and flexibility, but should any of the bars show a weakness or become cracked, split or injured to the extent of interfering with a safe use of the board, the injured bar can be removed and another substituted therefor without discarding the good bars. This is a distinct advantage compared to a solid or one piece board or even a laminated board, for in the latter instance tearing the laminations apart often causes a bar to split, so that in the end nothing is saved.

My fabricated board has been especially designed to be used in a drop hammer 3 having an upper die or head 4 supported by my board which extends between friction rollers 5 adapted to be driven to raise the board and die attached thereto, and then released to descend by gravity and cause work to be performed by the drop hammer. It is obvious that such a board is subjected to strains and vibrations, but with each bar of the board made of perfect stock there will be a degree of flexibility which will withstand the vibratory strains thus assuring long use of the board in a drop hammer.

What I claim is:

As a new article of manufacture, a drop hammer board composed of bars of rectangular cross section arranged face to face, and leather strips secured between contacting faces and having their edges exposed at the pressure receiving surfaces of the board.