P. A. SOLEM.

TRACTION BLOCK.

APPLICATION FILED APR. 16, 1917.

1,327,296. Patented Jan. 6, 1920.

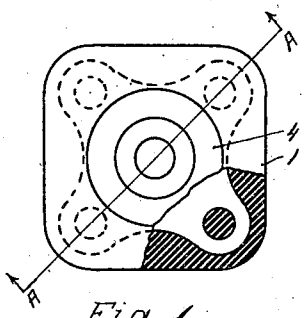


Fig. 1.

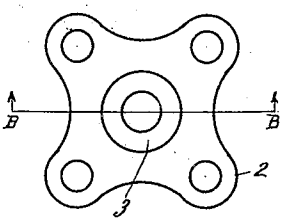


Fig. 3.

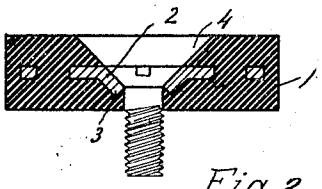


Fig. 2.

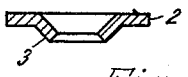


Fig. 4.

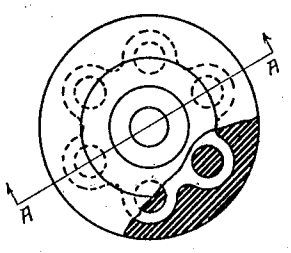


Fig. 5.

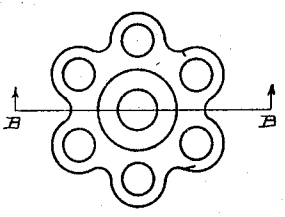


Fig. 6.

Inventor
Peter A. Solem

by Woodcock & Wood
Attys.

UNITED STATES PATENT OFFICE.

PETER A. SOLEM, OF CINCINNATI, OHIO.

TRACTION-BLOCK.

1,327,296. Specification of Letters Patent. Patented Jan. 6, 1920.

Application filed April 16, 1917. Serial No. 162,377.

To all whom it may concern:

Be it known that I, PETER A. SOLEM, a citizen of the United States, and residing at Kennedy Heights, Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Traction-Blocks, of which the following specification is a full disclosure.

My invention relates to elastic blocks primarily used for furnishing a cushion traction surface for a traveling work feeding bed or carrier or sander or polishing machines.

An object of the invention is to provide an elastic traction block with a fastener anchoring core.

Other objects and features of the invention will be more fully reviewed in the detail description of the accompanying drawings disclosing an embodiment of the invention and in such drawings like characters of reference denote corresponding parts throughout the several views of which:

Figure 1 is a top plan view of my improved elastic traction block partly in section illustrating a non-elastic core-plate within the block.

Fig. 2 is a section on line A—A, Fig. 2, including a screw used for fastening the block to a belt of endless carriers, the screw seating in the countersink of the anchor or core-plate.

Fig. 3 is a plan view of the core-plate.

Fig. 4 is a section on line B—B, Fig. 3.

Fig. 5 is a plan view, partly in section, of a modified form of design of block and core-plate and a cross section taken on line A—A of said figure would appear the same as the sectional view, Fig. 2.

Fig. 6 is a plan view of the core-plate shown in Fig. 5 and a cross section taken on line B—B of said Fig. 5 would appear the same as the sectional view, Fig. 4.

In sander or polishing machines it is a general practice to provide the traveling work carrying-bed, as an endless carrier or belt, with a series of elastic traction blocks to increase its friction hold upon the work fed thereby toward and beneath the abrading or polishing roll or drum, journaled above the carrier. The endless carrier or belt is usually formed of cross bars or slats linked together each having a series of traction blocks secured thereon in a row longitudinally of the bar. The blocks are slightly spaced apart from each other, and the blocks of one row set in a staggered relation to the blocks of an adjacent row mounted upon a second bar. The blocks are constructed of elastic material, as vulcanized rubber, and are secured to the belt or carrier by a flat headed screw passing through a central countersunk aperture in the block, with the head of the screw below the upper surface of the block away from possible engagement with the work conveyed or fed by the carrier unless the block becomes unduly worn. As the blocks are composed of a vulcanized rubber stock, it has been difficult to satisfactorily and securely anchor or fasten the blocks to the slats or bars of the carrier. They are easily torn or sprung loose by the work, as by abruptly engaging one edge of and flexing the block resulting in a prying action tearing the block from the fastener which secures it to the belt or carrier.

I overcome the objections heretofore encountered and form a very durable product with my invention which consists in providing the block with a non-pliable or rigid core, as a metallic plate intermediately embedded within the body of the block, for anchoring a fastener. The core also qualifies to reinforce the block against undue flexure without destroying its compressive elasticity required in its use as a cushion or traction block.

Referring to Figs. 1 to 4 of the drawings which illustrate the block as an article of manufacture, 1 indicates a block made of a rubber stock, of rectangular or square outline with rounded corners. The block has a fastener anchoring metallic plate or core 2 intermediately embedded therein. The plate 2 centrally has a flanged countersink 3 therethrough, registering with a central counterbore orifice 4 formed in the block.

The flanged countersink of the plate 2 provides a very substantial seat for anchoring the head of the screw used for fastening the block to a slat or surface of the carrier. The plate or core 2 may be of any selected configuration, preferably of irregular contour or scalloped edge, as shown in the different views of the drawings, to form wing or tab-extensions, more permanently embedding the plate within the block and increase the volume of material between the upper and lower portions of the block at a plate division line.

The volume of material at such division

point is further increased in aperturing or perforating the plate or tabs and thus disrupts any parting influence between the upper and lower portions of the block which the plate may assume to possess. The plate is inserted at the time of molding the block or before vulcanizing, whereby when the body portion of the block is vulcanized it adheres to the plate surface forming a substantial and permanent union therewith, leaving only the counterbored surface of the plate exposed which forms a metallic anchoring seat for the screw head.

Having described my invention, I claim:

1. A traction block, comprising a centrally apertured elastic body, and a metallic core plate embedded within said body centrally countersunk and apertured, the countersink registering with the aperture through said body, said plate being of irregular contour providing a series of tabs, each tab apertured for establishing a union of body material through said plate.

2. A traction block, comprising an elastic body and a metallic core plate embedded within said body, having an opening therethrough and providing a seat for a fastening anchor engaged through the opening in said plate, said plate being of irregular contour providing tabs, each tab apertured for establishing a union of the body material through said tab apertures.

In witness whereof, I hereunto subscribe my name, as attested by the two subscribing witnesses.

PETER A. SOLEM.

Witnesses:
M. SMITH,
L. BECK.