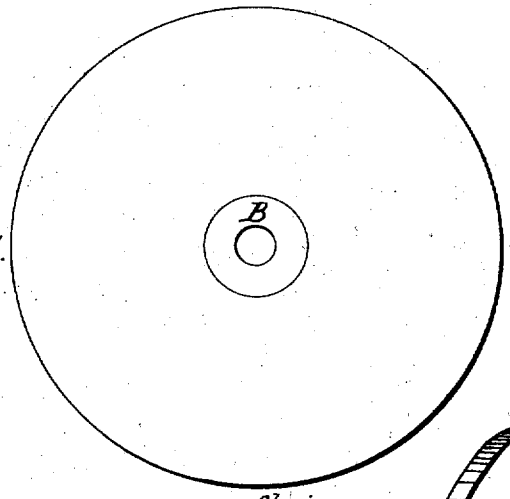
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PATENTED MAY 22, 1830.

R. KINGSBURY.

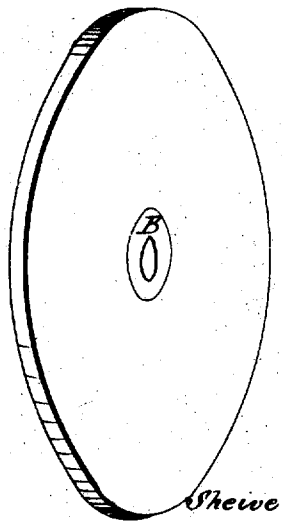
SCREW COG FOR SHIPS' BLOCKS.

Fig. 1.



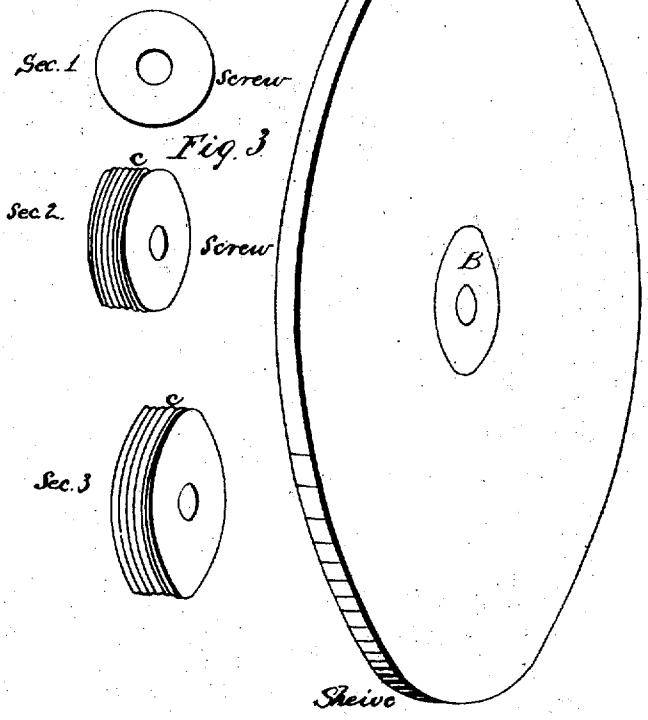
Sheive

Fig. 2.



Sheive

Fig. 3



Sheive

D. X3489 May 22. 1850

Rhodes Kingsbury of Bath State of Maine

Letters Patent.

The schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Rhodes Kingsbury himself of his improvement, being a screw cog or Bush for cogging shives in ships blocks and for other purposes

To all to whom these presents shall come

Be it known, that I Rhodes Kingsbury of Bath in the County of Lincoln and State of Maine, have invented a new and useful improvement being a screw cog or bush for cogging shives in ships blocks and other similar articles and the application of the screw to such cogs or bushes, for the purpose of fitting the same and that the following is a full and exact description of the construction, and fitting and operation of said Machine as invented or improved by me,

The cog or bush is a cylinder, and its length is equal to the thickness of the shive, or thing to be cogged or bushed, and whose diameter is one sixteenth of an inch or three eighths longer than the diameter of the hole to be cogged or bushed On the outside of the cog or bush, is cast or cut a screw by which the cog or bush is drawn into the shive, or thing to be cogged, and which fastens the cog to the shive, or in other words the cog or bush invented by me, is a screw whose length is equal to the thickness of the thing to be cogged, and of such size as to screw firmly into the hole of the shive or thing to be cogged and the invention consists principally in the application of the screw to cog for shives of ships blocks, but the same may be applied to cog or bush for other things. The invention is more particularly described in the drawing hereunto annexed, in fig. 1st No. 2d and No. 3d, represent the screw cog

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invented by me. Fig 1st. Fig 2d. & Fig 3d. are shiv B.B.B. are screw cogs fitted to the shive, screwed into them in the manner of my invention C.C. are screws or the thread of a screw, cast or cut on the rim of the cog, and which draw the cog into the hole of the shive. The screw cog or bush is intended generally to be used for rigging shives of ship blocks of all kinds, and other similar articles that run on iron pins or journals; and can be made of iron or composition, either by casting or working and cutting. It differs from the common cog or bush in this, that it has a plate, and doesnot require rivetting to the shive, the common cog is sunk the thickness of the plate into the shive, and the plate being about one third of the circumference of the shive and about a third of its thickness and in a triangular form is rivetted through the shive at the angle, The method of fitting the plate cog into Lignumvitae, is difficult; the wood being hard, it is almost impossible to let them in tight, they soon wear loose and become useless. The plate being let in on one side of the shive only to cant the shive in the shell of the block, as the strain comes on one side of the shive; the shive is necessarily cut so thin to receive the plate that the rivets have but little support, they often crack the shive and render it useless or become loose, and a shive once cogged in this way cannot again be cogged. The following are some of the advantages of the screw cog, or bush, as invented by me. It has no plate to weaken the shive, it requires no rivetting but can be screwed into the hole of the lignumvitae shive, the hole being bored about one eighteenth of an inch smaller than the cog, the thread of the screw cutting into the shive so that they become perfectly firm & tight and shiving, and will not wear loose. The screw cog can be made much at as little expense as the common plate cog, and can be fitted to the shive with much less expense. It may be removed with

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2.

into the shive with a square stock reamer, now in common use for reaming out iron cogs. The screw cog can be applied to all the shives in all the blocks of the ship, whereas the plate cog can only be applied to those of the larger sizes; it may also be applied to shives whose pin holes have been worn so large as to be unfit for use, and to such as have had their pin holes worn oblong and thus become useless. — But the principal advantage of the screw cog is the saving of expense, It can be fitted to the shive for less than one fourth part of the expense of fitting the plate cog.

What I claim as new and as my own invention or discovery in the above described Machine, and for which I ask an exclusive privilege, is the screw cog or bush for shives and other articles, and the application of the screw to the cog or bush for fitting the same to shives and other articles

Witnesses
Elisha Pentlet
Joseph Jewett

Moody Kingsbury

Ex.
Ch. J. W.

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