C. F. KNEISLY & W. WENSTHOFF.

Manufacture of Shafting.

No. 139,165. Patented May 20, 1873.

Fig 1

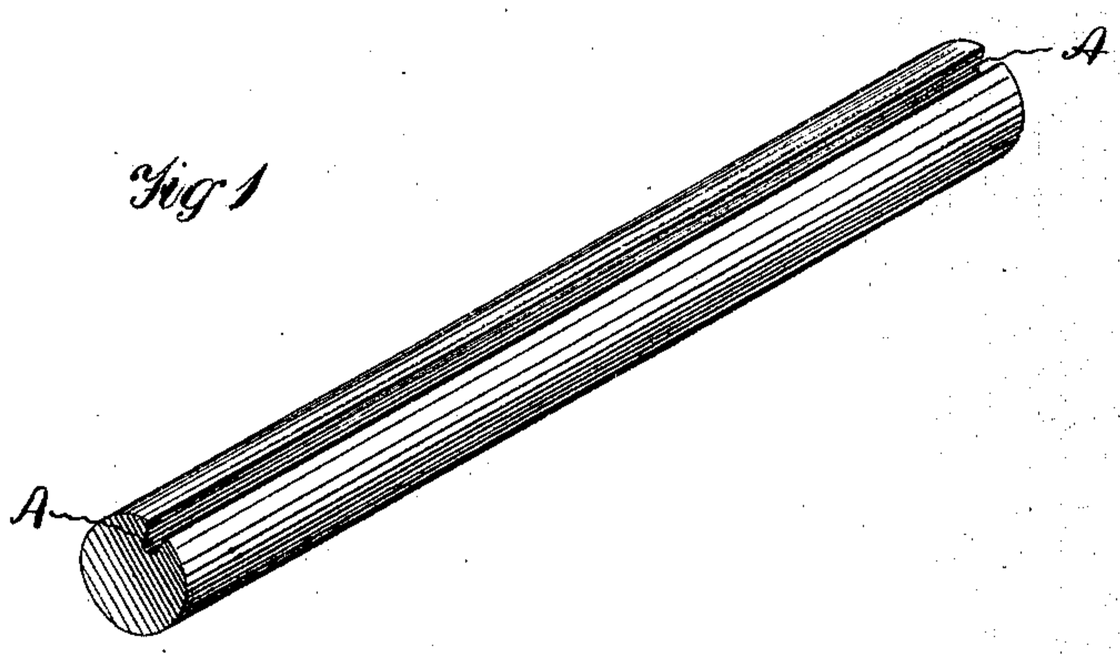
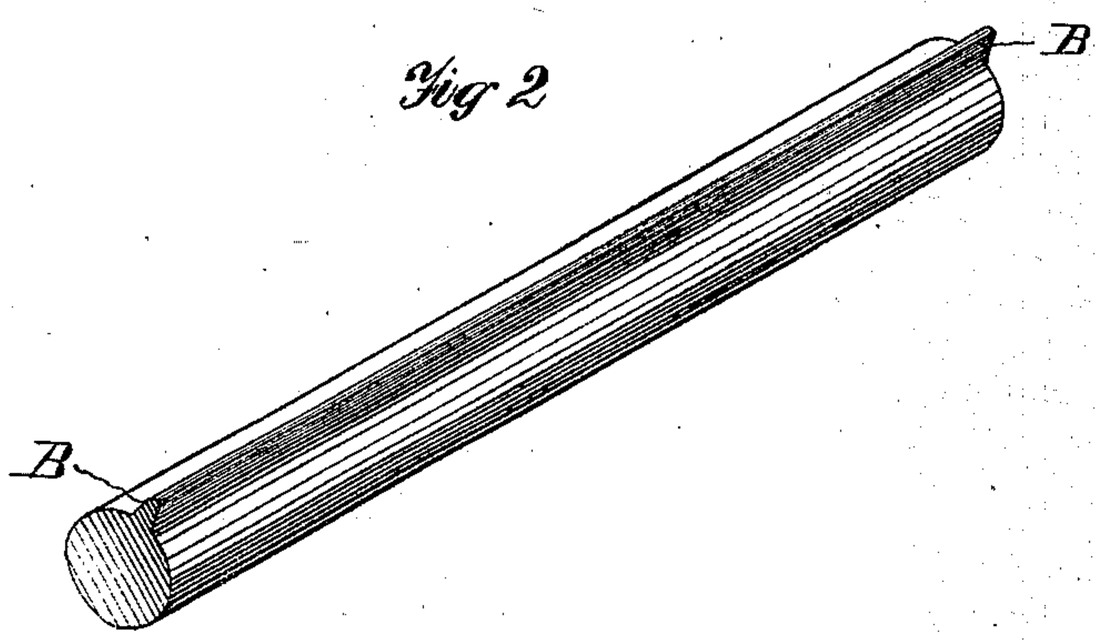


Fig 2



Witnesses

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UNITED STATES PATENT OFFICE

CHRISTIAN F. KNEISLY AND WILLIAM WENSTHOFF, OF DAYTON, OHIO, ASSIGNORS TO FARMERS' FRIEND MANUFACTURING COMPANY, OF SAME PLACE.

IMPROVEMENT IN THE MANUFACTURE OF SHAFTING.

Specification forming part of Letters Patent No. **139,165**, dated May 20, 1873; application filed April 12, 1873.

To all whom it may concern:

Be it known that we, CHRISTIAN F. KNEISLY and WILLIAM WENSTHOFF, of Dayton, in the county of Montgomery and State of Ohio, have invented certain Improvements in the Manufacture of Bars of Iron for Shafting, of which the following is a specification:

The object of this invention is the production of bars of iron for shafting which shall be furnished with a slot or groove throughout their entire length, or with a projecting rib throughout such length, so that when it becomes necessary to secure wheels or pulleys thereon, they can be set in any desirable position and there held without the delay and expense consequent upon cutting key-ways, as at present; and it consists in bars of rolled iron, whether round or square, having in them a slot or groove, or it may be a projecting rib, made or formed by the rollers which give form to the bar, as hereinafter described.

Figure 1 of the drawing represents a round bar of iron, it being represented as having formed in it a groove or slot, A, extending throughout its entire length, and which may be of any desired width and depth, according to the diameter of the bar or shaft in which it is to be formed. This slot is to be formed while the bar is being rolled, which result may be accomplished by having upon the rolls a projection of the required size to form the same, such projection being placed upon all of the rolls through which the bar passes, or it may be placed upon the finishing-roll only. Fig. 2 represents a modification of our improvement, and shows a bar of iron for shafting, with a projection, B, formed upon it by the rolls through which it passes, the only difference in which would be, that in this case such rolls would require to be furnished with a groove, into which a portion of the metal would be forced, either in finishing it or previously, by the action of the rolls through which it has passed.

The rib shown in Fig. 2 is regarded as the equivalent of the groove shown in Fig. 1, it being apparent that it would prevent any wheel or pulley that is placed upon it from turning thereon.

It is apparent that, as a consequence of forming this groove or projection during the operation of rolling the shaft or bar, any number of feet or pounds of shafting of any given diameter can be furnished at a much less cost than by the method now in use for forming key-ways, which consists in planing, milling, or chipping out such grooves.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, as a new article of manufacture, is—

Bars of iron for shafting having slots or grooves formed in them, or an elevated rib formed upon them, during the process of rolling, for the purpose of receiving pulleys or wheels thereon.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

CHRISTIAN F. KNEISLY.
WILLIAM WENSTHOFF.

Witnesses:
B. KUHNS,
E. M. GOTTSCHALL.