(12) **United States Patent**
Keith

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(54) **GIN, COTTON, GRATES**

(76) Inventor: **Edwin Keith**

Edwin Keith Bridgewater Mass.

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 Edwin Keith of his Improvement in the manufacture of gaiters or Cotton Ties

To all to whom these presents shall come Be it known that I Edwin Keith of Bridgewater in the County of Plymouth and State of Massachusetts have invented a new and useful Improvement in the Manufacture of Cotton Ties or Gaiters and that the following is a full and exact description of the mode of manufacturing them as improved by me. I make the Cotton Ties Gaiters in Sheets of the required length at the ends of which there is left a selvage for the purpose and at that part of the space is here the shuttle both pass through I introduce into the mould before the melted metal is poured in Narrow Slips of the same thickness with the width of the space between the gaiters. These Slips may be made of Cast Iron wrought iron or any substance which will have the effect to Chill the Metal suddenly where it comes in contact with it so that when it is cooled it will have acquired the necessary hardness then remove a portion of Copper for the gaiters I have had Cast of Iron I make two in one Sheet and after I have Cut out the spaces between the two gaiters in the pattern I find it to be proper shape and smooth it in common Gaiter Clamp and after this is done using the Chills as before described the moulds is ready to pour the same object might be effected although at a greater expense by using Wedge moulds and then Chilling the gaiters in any part but I have made mine as above as by so doing that part of the gaiter most exposed to friction which is the common wrought iron gaiter when in use will be supported by a plate of the thickness of Gaiters i.e. Cast iron or other suitable substance in the position in Sheets of two or more connected at the ends and of Chilling them either in whole or in part as described above.

Witnesses
Daniel Mitchell 2d
Jon C Hyde

Edwin Keith