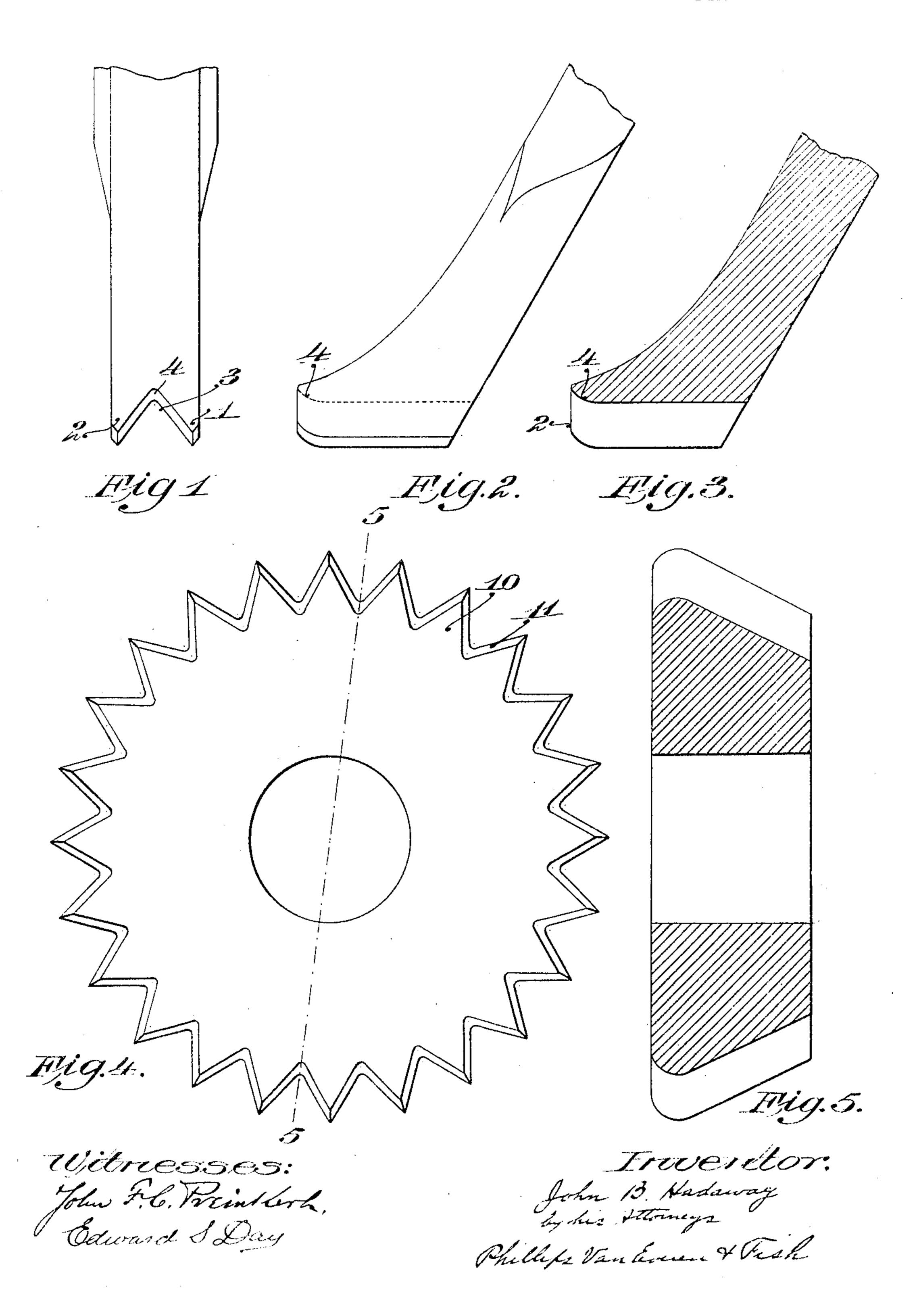
J. B. HADAWAY. STITCH SEPARATING OR INDENTING TOOL.

APPLICATION FILED JUNE 6, 1904.

906,705.

Patented Dec. 15, 1908.

2 SHEETS-SHEET 1.



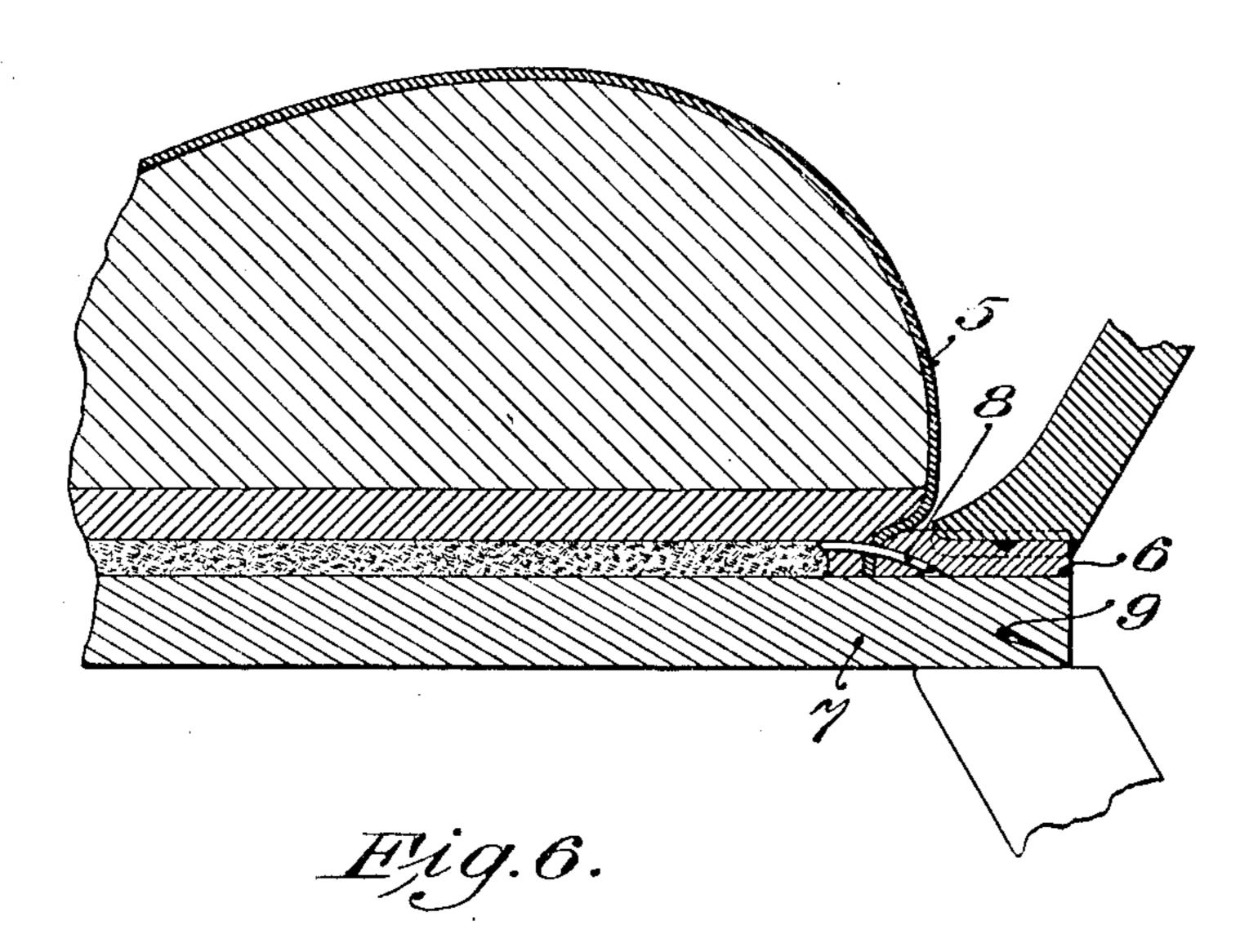
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Wiltreesses: John F.C. Prinkerk Edward S. Day John B. Hadaway by his Attorneys Phillips Van Everen & Fish

UNITED STATES PATENT OFFICE.

JOHN B. HADAWAY, OF BROCKTON, MASSACHUSETTS, ASSIGNOR TO UNITED SHOE MACHINERY COMPANY, OF PATERSON, NEW JERSEY, A CORPORATION OF NEW JERSEY.

STITCH SEPARATING OR INDENTING TOOL.

No. 906,705.

Specification of Letters Patent.

Patented Dec. 15, 1908.

Application filed June 6, 1904. Serial No. 211,237.

To all whom it may concern:

Be it known that I, John B. Hadawar, a citizen of the United States, residing at Brockton, in the county of Plymouth and 5 State of Massachusetts, have invented certain new and useful Improvements in Stitch Separating or Indenting Tools; and I do hereby declare the following to be a full, clear, and exact description of the invention, 10 such as will enable others skilled in the art to which it appertains to make and use the same.

In the manufacture of shoes it is customary to form a series of transverse inden-15 tations along the upper surface of the projecting sole edge to give a pleasing and finished appearance to the shoe, these indentations being in effect impression or imitation stitches and serving either to 20 bring into prominence the stitches of the outseam, when the shoe is provided with an outseam, or when the shoe is not provided with an outseam, giving it the appearance of a stitched shoe.

with an outseam the stitches of which appear on the upper surface of the sole the indentations are formed in the stitch intervals being spaced apart distances corresponding 30 to the lengths of the stitches and preferably the crowns of the stitches and the leather between the indentations are rounded over or pressed into a predetermined shape. The tool which is usually employed in in-35 denting the stitch intervals of an outseam and in shaping the crowns of the stitches is provided with a groove of the shape which it is desired to impart to the crowns of the stitches, and this tool before being pressed 40 into the work to indent and shape each stitch is first located either on the crown of the stitch or in one of the stitch intervals. In operating upon the sole of a shoe which is not provided with an outseam or in which 45 the outseam is covered by a channel flap, a grooved wheel is usually employed, the grooves of which are spaced at regular intervals around the periphery of the wheel. and shaped to give the required shape to the 50 indentations.

In separating and indenting the stitches of a finished seam or in indenting the surface of a sole which is not provided with a seam, it is necessary, on account of the tend-55 ency of the leather to return to its original

position, to force the tool into the work a sufficient distance to bring the working face of the tool below the surface of the work. When the tool is so pressed into the work the outer end of the tool cuts into the work so 60 that the work is marred by a line extending along the surface near the upper at the ends of the indentations. In operating on welted shoes the outer end of the tool acts upon the welt close to the inseam and on account of 65 the great pressure exerted upon the welt at this point, tends to weaken the seam and tear the welt from the upper.

The object of the present invention is to remedy this defect in the operation of tools 70 which are used either to separate and indent the stitches of a finished seam or to indent the edge of a sole which is not provided with an outseam and with this object in view the invention contemplates the provision of 75 a stitch indenting tool having a grooved working face which curves upwardly at its outer end. By curving the working face of the tool upwardly at its outer end, this por-In indenting the sole of a shoe provided | tion of the working face is prevented from 80 marring the work when the remaining portion is forced below the surface of the work, as no sharp cutting edge is formed at the outer end of the tool, as in tools which have heretofore been used, which can cut into and 85 mar the surface of the work. Also the tool can be used to form indentations on welted work extending close to the inseam without liability of tearing the welt from the upper.

The invention/may be embodied in any 90 form of tool adapted for operation either upon a sole provided with a finished seam or upon a sole in which no stitches appear upon the upper surface.

The invention will be clearly understood 95 from an inspection of the accompanying drawings in which

Figure 1 is a view in front elevation of a stitch separating and indenting tool embodying the same, Fig. 2 is a view in side 100 elevation of the tool illustrated in Fig. 1, and Fig. 3 is a longitudinal sectional view thereof, Fig. 4 is a view in end elevation of an indenting wheel embodying the invention, Fig. 5 is a sectional view thereof taken 105 on the line 5-5 and Fig. 6 is a sectional view illustrating the tool shown in Figs. 1, 2

and 3 forced into the upper surface of the

projecting edge of the sole of a welted shoe. The tool illustrated in Figs. 1, 2 and 3 is 110

provided with two stitch separating and indenting blades 1 and 2 and with a groove 3 between the indenting blades, the surface of which is shaped to give the desired shape to 5 the crown of the stitch. This surface con-

stitutes what may be termed the working face of the tool. In accordance with the present invention this surface is curved upwardly at 4 at the outer end of the tool so

10 that the portion of the working face at the outer end of the tool is somewhat higher than the remaining portion. The result secured by curving the face of the tool upwardly at its outer end will be apparent

15 from an inspection of Fig. 6 in which it will be seen that when the tool is forced into the work so as to bring the main portion of

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Figs. 1, 2 and 3. This will be apparent to taose skilled in the art without further de- 40 scription.

The nature and object of the present invention having been thus indicated and constructions embodying the invention having been specifically described, what is claimed 45 ls:—

1. A stitch indenting tool, having a grooved working face the surfaces of which are substantially plane and continuous throughout the working face of the tool and 50 which are curved upwardly at their outer ends to prevent this portion of the working. face from marring the work when the remaining portion is forced below the surface of the work, substantially as described.

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