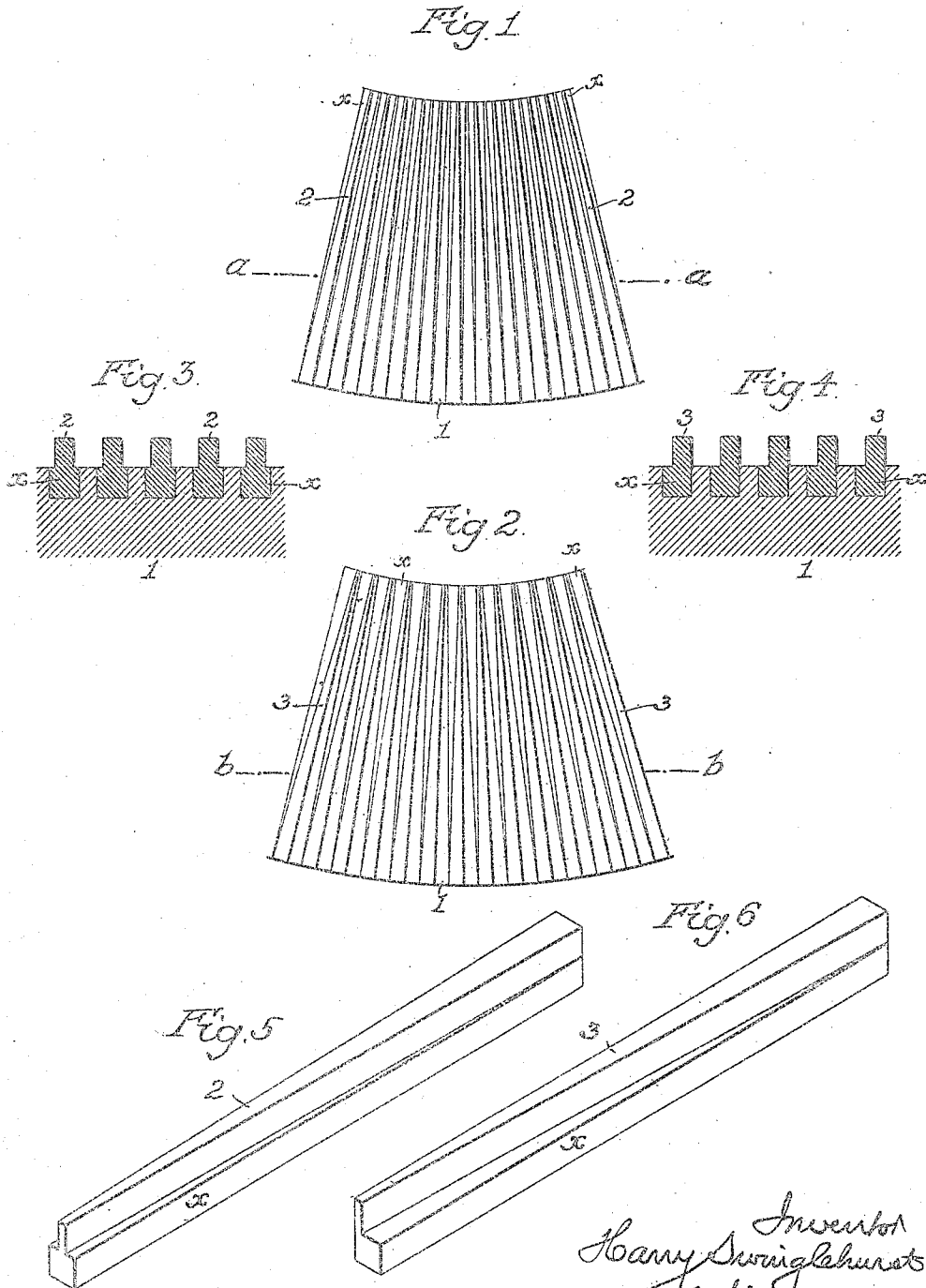


H. SWINGLEHURST.
DIAL FOR KNITTING MACHINES.
APPLICATION FILED NOV. 16, 1909.

1,025,169.

Patented May 7, 1912.



Witnesses
D. J. J. J. J.
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UNITED STATES PATENT OFFICE.

HARRY SWINGLEHURST, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR, BY MESSE
ASSIGNMENTS, TO SCOTT & WILLIAMS, INCORPORATED, OF CAMDEN, NEW JERSEY.
A CORPORATION OF NEW JERSEY.

DIAL FOR KNITTING-MACHINES.

1,025,169.

Specification of Letters Patent.

Patented May 7, 1912.

Application filed November 16, 1909. Serial No. 523,313.

To all whom it may concern:

Be it known that I, HARRY SWINGLEHURST, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Dials for Knitting-Machines, of which the following is a specification.

My invention relates to that class of dials for knitting machines, in which the needles are guided between ribs or partitions consisting of strips of metal inserted into radial slots cut in the face of the dial, the object of my invention being to provide, in such dial, radial and parallel sided grooves for the guidance of the needles. This object I attain in the manner hereinafter set forth, reference being had to the accompanying drawing, in which—

Figure 1 represents, on an exaggerated scale, a top view of part of a knitting machine dial having the grooves for the guidance of the needles formed therein in accordance with my invention; Fig. 2 is a similar view illustrating a modification of the invention; Fig. 3 is an enlarged transverse section on the line *a—*a**, Fig. 1; Fig. 4 is an enlarged transverse section on the line *b—*b**, Fig. 2; Fig. 5 is a perspective view of a partition strip such as shown in Fig. 1, and Fig. 6 a perspective view of a partition strip such as shown in Fig. 2.

In the ordinary practice of making a needle dial for knitting machines of the type to which my invention relates, radial grooves or slots are cut in the face of the dial and metal strips are then inserted into and secured in these slots, these strips projecting above the face of the dial so as to form between them grooves for the guidance of the needles.

As the slots for the reception of the strips must of necessity be parallel sided, on account of being cut by a milling tool, it follows that the spaces between the strips, which spaces constitute the needle grooves, must be of a flaring character, being wider at their outer ends than at their inner ends because of the greater diameter of the outer portion of the dial. In order to overcome this objection, I so form the slots in the dial for the reception of the partition strips

that the latter will be separated at the outer portion of the dial to such an extent as to provide the proper width of grooves for the reception of the needles and those portions of the partition strips which project above the face of the dial are cut away or recessed either on both sides, as represented at 2 in Figs. 1 and 5, or on one side only, as represented at 3 in Figs. 2 and 6, so as to preserve the same width of groove throughout, each partition strip therefore presenting a lower parallel sided portion *x* for insertion in the groove which has been formed in the face of the dial for its reception, and an upper tapered or wedge-shaped member 2 or 3 for the guidance of the needles.

I claim:—

1. A knitting machine dial having formed therein radial parallel-sided slots for the reception of similarly shaped rib-forming strips, those portions of the strips which project above the face of the dial being tapered so as to form parallel-sided radial grooves for the guidance of the needles.

2. A knitting machine dial having formed therein radial parallel-sided slots for the reception of similarly shaped rib-forming strips, those portions of the strips which project above the face of the dial being tapered on each side so as to form parallel-sided radial grooves for the guidance of the needles.

3. A rib-forming strip for a knitting machine needle dial, said strip having a lower parallel-sided member for application to the dial and an upper tapering member for the guidance of the needles.

4. A rib-forming strip for a knitting machine needle dial, said strip having a lower parallel-sided member for application to the dial and an upper tapering member recessed on each side for the guidance of the needles.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

HARRY SWINGLEHURST.

Witnesses:

LORETTO A. COSTELLO,
EDWARD H. BUCKLEY.