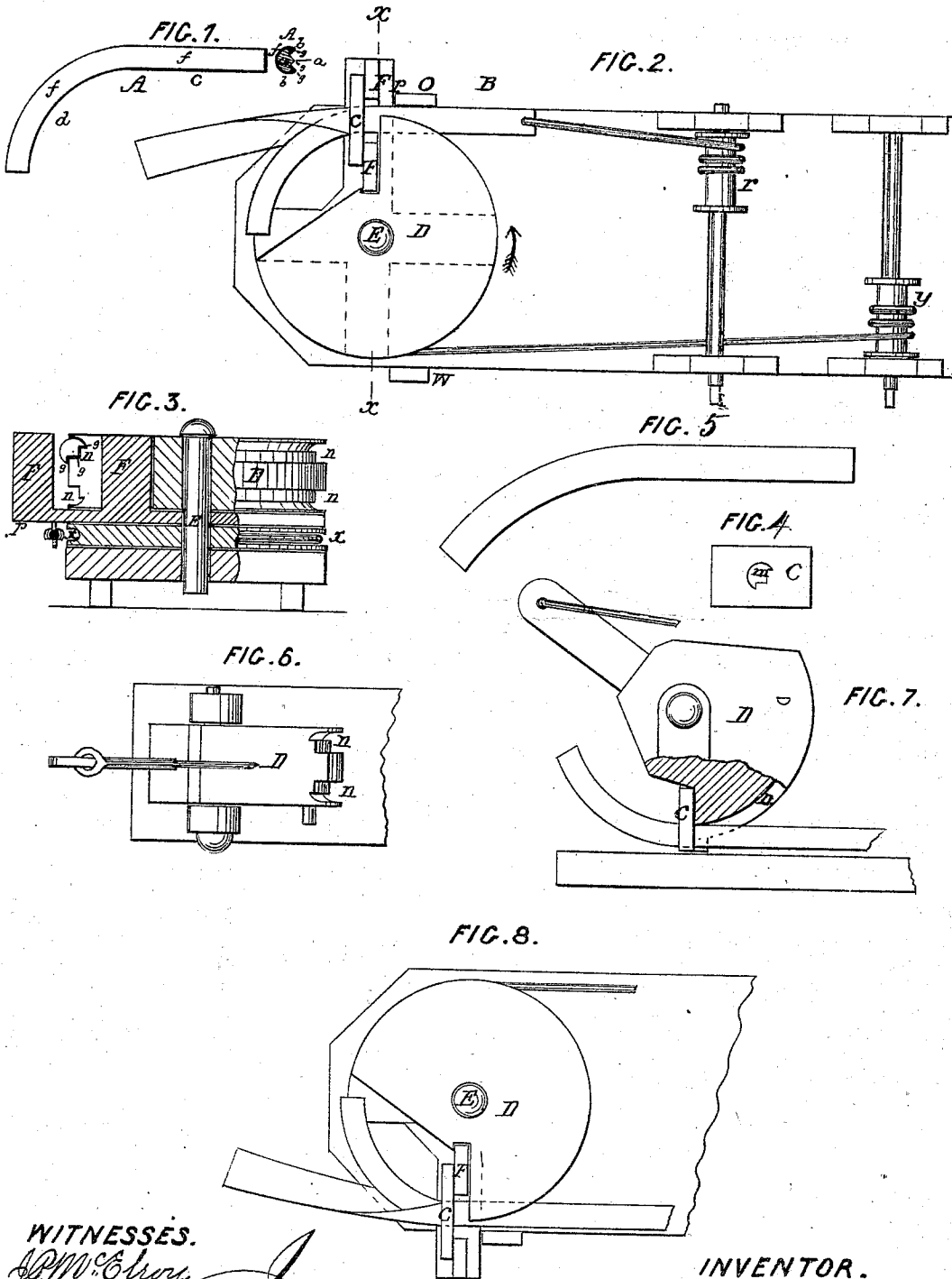


B. F. GALE.

Machines for Sheathing Carved Molding Strips.

No. 148,115.

Patented March 3, 1874.



WITNESSES.

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IMPROVEMENT IN MACHINES FOR SHEATHING CURVED MOLDING-STRIPS.

Specification forming part of Letters Patent No. **148,115**, dated March 3, 1874; application filed May 15, 1873.

To all whom it may concern:

Be it known that I, BENJAMIN F. GALE, of Boston, State of Massachusetts, have invented an Improved Manufacture of Metal-Sheathed Molding-Strips, and machines for producing the same, of which the following is a specification:

This invention relates to a new machine for producing metal-sheathed molding-strips, which shall be curved in the direction of their length; and consists principally of a die such as now used for making straight metal-sheathed strips, and a form for a rest or bearing for the molding-strip, the construction and operation of which will be fully hereinafter described.

In the drawings, Figure 1 is an illustration of one form of the molding-strip as made by my machine. Fig. 2 is a plan view of the machine; Fig. 3, a cross-section on the line *xx* of Fig. 2; Fig. 4, a detail view of the die; Fig. 5, a plan view of a strip of sheet metal cut out as for sheathing a molding-strip; Figs. 6 and 7, views showing modifications of my invention. Fig. 8 shows the form and die reversed to sheath the strip when it has a different curve from that shown.

B represents my improved machine, which is composed of a die, C, and a "form," D. The die is of the ordinary form used for sheathing straight molding-strips with sheet metal, and its opening *m* corresponds in outline to a cross-section of the molding-strip. The form D is circular in shape, and has a groove, *n*, around its periphery, and is arranged to be turned freely in a horizontal plane upon a fixed center pin, E. F is a stationary standard, to which is bolted or otherwise secured the die C, its opening *m* being arranged in such respect to the groove *n* that a molding-strip drawn through the die-opening will bear or rest tangentially against the periphery of the form, as in Fig. 3. A stop, O, is suitably located for the arm *p* of the form D to abut against, and hold the form from moving beyond it. *r* is a windlass for drawing a molding and sheet-metal strips through the die, and *y* a windlass-drum for revolving the form,

both drums having suitable handles for operating them, and with suitable rope or other line-connections for the purpose stated, the rope for operating the form D being passed partially around and lies within the groove *x* in the lower part of the same.

In making the improved metal-sheathed molding-strips, the covering or sheathing of the straight part *c* of the strip is accomplished by drawing the same through the die by means of the drum *r*, as shown in Fig. 2, and the sheathing of the curved portion is accomplished by revolving the form D in the direction indicated by the arrow, Fig. 2, through the medium of the drum *y*.

Instead of arranging the form D in a horizontal position, it may be arranged in a vertical position, as represented in Figs. 6 and 7, being supported by standards.

The sheet-metal sheathed molding-strip A produced by this machine consists of a body or core, *a*, which may be of wood or metal, and a sheet-metal sheathing, *b*.

In Fig. 1 is represented one form of sheathed molding-strip produced by the machine, which possesses a straight portion, *c*, and a curved portion, *d*, and is semicircular in form, as at *f*, and angular, as at *g*.

I have shown the form D as having two peripheral grooves, *n*; but it is obvious that but one is necessary, and for producing a curve running in a direction opposite to that shown in Fig. 2, it is only necessary to bring the standard F to a rest against the stop *w*, turn the form D over, and reverse the direction in which the operating-rope extends around the form, as shown in Fig. 8.

What I claim is—

A machine for making metal-sheathed molding-strips curved in the direction of their length, consisting of a die, C, and a form, D, combined to operate substantially as described.

BENJAMIN F. GALE.

Witnesses:

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