**Seam'ing Ma-chine'.** The Royer & Lincoln seamer for use in print works, bleacheries, dye works, and cotton mills trims woven goods neatly and evenly; and joins the margin of cloth outside the seam so that it will pass through the shearing machine without raising the blades.

In this machine the grooved points, on which are placed the loops of the ends of the knit goods that are to be seamed together, are arranged radially and set in a brass ring, which is 16″ in diameter, and is secured in a circular bed that is mounted to turn on an upright axis, and has on its bottom, or lower part, a concentric circle of gear teeth which gear into a pinion fast on a shaft with a ratchet wheel having teeth to suit the gage of the circle of grooved points. This ratchet is turned one step at each revolution of a driving shaft by means of a pawl connected with that shaft, and thereby the circle of points is turned a step equal to the distance from one point to the next so as to bring the next point under the needle. A dog drops into the teeth of the ratchet and prevents the latter and the circle of points from turning backward.

Fig. 2211.
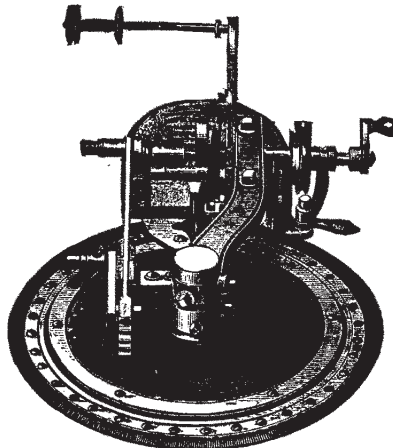
Seaming and Turning-off Machine.

The needle is held by an arm which is mounted on a fulcrum and gets its to and fro motion by a cam on the driving shaft. The looper is held by a separate arm which receives its motion by a side cam connected to the needle cam, so that the points are fed forward one step, as above described, and a stitch is made by the needle and looper at each revolution of the driving shaft.

The points are firmly held in their places by caps or segments with three screws each. The gage can be changed by taking out the brass ring that holds the points and putting in another with more or less points to make the gage required. The ratchet must also be changed for another having the proper number of teeth to turn the circle of points with the necessary step by step movement corresponding to the change of gage.

The main driving shaft should revolve 115 to 120 times per minute in order to give a good result.