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WINDING APPARATUS

ABSTRACT OF THE DISCLOSURE

A winding apparatus capable of improving productivity is provided. The wire winding apparatus of the present invention includes a plurality of sets of winding means each comprising a nozzle unit and a guide unit, and a plurality of holding means for holding a plurality of bobbins in a predetermined posture so that the bobbins are wound with wires parallelly and simultaneously. Further, the nozzle units and the guide units of the plurality of winding means are arranged on the same guide rails and the supply and winding of the wires are synchronized with the rotation of the holding means. Moreover, each of the bobbins used in the winding apparatus is substantially funnel-shaped with the formation of a tapered outer peripheral surface having a projection so that the holding means can securely hold the bobbin while positioning the bobbin through this projection. The winding apparatus of the present invention is suitable for obtaining a saddlelike coil by winding a wire on a deflection yoke bobbin.

Figure 1

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