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(54) **UNIT, DEVICE, APPARATUS AND METHOD FOR BENDING AND PRODUCING WAVE WINDINGS FOR COIL WINDINGS OF ELECTRIC MACHINES**

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(57) **ABSTRACT**

A bending unit for bending a bend of a wave winding for a coil winding of an electric machine, having a first holding element for holding a first segment of a wire to be bent, a second holding element for holding a second segment of the wire to be bent and at least one bending mold for bending a transition region of the wire between the first segment and the second segment. The first and the second holding elements are in engagement with each other via at least one mechanical control cam to control a relative pivoting and a relative displacement of the first and the second holding element. Furthermore, a bending device having a plurality of such bending units, a wave winding production apparatus having a plurality of bending units which are synchronized via control cams, and a bending method and a wave winding production method are described.