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VERONESI et al.(10) **Pub. No.: US 2022/0352778 A1**(43) **Pub. Date: Nov. 3, 2022**(54) **PREFORMED COIL ASSEMBLY FOR A
STATOR OF AN ELECTRIC MOTOR,
COMPRISING COIL CENTERING
INSULATION FILMS**(52) **U.S. Cl.**CPC *H02K 3/52* (2013.01); *H02K 1/146*
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ABSTRACT(72) Inventors: **Daniele VERONESI**, Corcelles NE
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A preformed coil assembly for a stator of an electric motor includes first and second winding carriers located on respective opposite ends of the preformed coil assembly and a winding part wound around the winding carriers to form first and second elongated winding portions with an elongated opening therebetween to be fitted around a tooth of a stator. The preformed coil assembly includes first and second insulation films disposed around the first and second winding portions. Each insulation film includes upper and lower folded portions resting against first and second opposite walls of respective winding carriers to provide first and second distances between respective opposite lateral sides of the tooth and a corresponding non-folded portion of respective first and second insulation films. The first and second distances are equal so that the preformed coil assembly is centered with respect to the tooth when mounted therearound.

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