

ABSTRACT

A synchronous reluctance rotating electrical machine of an embodiment has a shaft and a rotor core. The rotor core is fixed to the shaft, in which cavity portions being formed in a projected shape toward a radially inward direction are formed into multilayers for each pole and bridges are respectively formed between the cavity portions
5 and an outer circumferential surface. Also, when a circumferential center of the one pole is a pole center and both circumferential ends are pole ends, the thickness of an outermost bridge positioned outermost on the pole end side among the plurality of bridges is formed to be gradually thicker from the pole center side toward the pole end
10 side. Among the plurality of bridges, the thickness of an intermediate bridge positioned on the pole center side of the outermost bridge with one bridge interposed therebetween is formed to be gradually thicker from the pole end side toward the pole center side.