

Title (en)  
AIR-COOLED DRY-TYPE TRANSFORMER

Title (de)  
TROCKENTRANSFORMATOR MIT LUFTKÜHLUNG

Title (fr)  
TRANSFORMATEUR SEC À REFROIDISSEMENT PAR AIR

Publication  
**EP 3580770 B1 20230412 (DE)**

Application  
**EP 18708595 A 20180208**

Priority  
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• EP 2018053180 W 20180208

Abstract (en)  
[origin: WO2018146196A1] The invention relates to an air-cooled dry-type transformer (1) comprising a core (10) provided with a branch (11); a winding body (14) arranged about the branch (11); a cooling channel (25) extending in the direction of the longitudinal axis of the winding body (14), the cooling channel being arranged between an inner part (15) of the winding body (14) and an outer part (20) of the winding body (14), the cooling channel (25) having on both ends openings (40, 42) and an essentially annular shaped cross-section having a round, oval or polygonal basic shape; at least one ring ventilator (30, 30a, 30b, 30c) comprising a ring (32) and a blower (34), wherein the blower (34) is designed to suction air and to blow the air from the ring (32) along a longitudinal axis of the ring (32), wherein an air flow (31) is generated. The ring ventilator (30, 30a, 30b, 30c) is dimensioned and mounted such that the air flow (31) generates a cool air flow (35) in the cooling channel (25). The invention further relates to a power device with air cooling and a cooling method using a ring ventilator.

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Citation (examination)  
• US 2015084214 A1 20150326 - WILSON HUGO GEORGE [GB], et al  
• US 2016153673 A1 20160602 - STANIFORTH MARK JOSEPH [GB], et al

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