

Title (en)
INDOOR UNIT FOR AIR CONDITIONER

Title (de)
INNENRAUMEINHEIT FÜR EINE KLIMAAANLAGE

Title (fr)
SECTION INTERIEURE POUR CONDITIONNEUR D'AIR

Publication
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Application
EP 98954796 A 19981124

Priority
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Abstract (en)
An indoor unit for an air conditioner, which can efficiently distribute air discharged from a turbo fan and reduce noise, comprising a turbo fan (2) which is disposed in a casing (1) and discharges air, sucked from a front side thereof, radically outwardly relative to an axis, and air flow control members (11) mounted to outlets (21-24) provided on the casing (1) and each having a planar vane (12) and a plurality of curved vanes (13-15) arranged lengthwise of the planar vane (12), wherein the plurality of curved vanes (13-15) have curvatures gradually increasing from a rear side toward a front side in a direction of rotation of the turbo fan (2) and spacings between adjacent curved vanes becomes smaller from the back side toward the front side in the direction of rotation of the turbo fan (2). <IMAGE>

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Cited by
EP1770339A1; EP1589292A1; EP1361398A4; AU2006209087B2; EP1367336A4; EP1533578A3; EP1884718A3; US2014345835A1; US9752816B2; EP1598604A3; EP1522795A1; EP1267132A1; EP1580491A1; EP1510762A1; EP1813876A3; EP1775520A1; EP1379816A4; EP1610065A3; EP1775523A3; US8056352B2; US7337626B2; WO2007086642A3; WO2006080793A3; WO02097337A1; US7275388B2; US7181925B2; US7171823B2

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