

Title (en)
CURVED ELEMENT FOR A VENTILATION SYSTEM

Title (de)
BOGENELEMENT FÜR EIN LÜFTUNGSSYSTEM

Title (fr)
ÉLÉMENT ARQUÉ POUR SYSTÈME DE VENTILATION

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Application
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Abstract (en)
[origin: WO2018073350A1] The invention relates to a curved element (11) for a ventilation system, comprising at least one oval opening (18) and a flow cross-section having a minimum radius of curvature which is at least as great as one tenth of the smallest diameter (dmin) of this flow cross-section.

IPC 8 full level
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Opponent : Naber Holding GmbH & Co. KG,
• DE 202005017821 U1 20060112 - NABER HOLDING GMBH & CO KG [DE]
• WO 2009127192 A1 20091022 - NABER HOLDING GMBH & CO KG [DE], et al
• JP H07269524 A 19951017 - KAWANO MICHIIHIKO
• US 2590797 A 19520325 - SICILIANO ANTHONY C
• EP 0940585 A1 19990908 - KAWANO MICHIIHIKO [JP]
• DE 102015007454 A1 20161208 - GM GLOBAL TECH OPERATIONS LLC [US]
• DE 1816732 A1 19690918 - BAHCO AB
• US 2009170421 A1 20090702 - ADRIAN JOHN R [US], et al
• CN 101567026 A 20091028 - UNIV SCIENCE & TECHNOLOGY BEIJ [CN]
• US 2015362181 A1 20151217 - ADAM DANIEL J [US], et al
• US 2019078716 A1 20190314 - FARROW NIGEL RICHARD [US]
• FR 2468017 A1 19810430 - CENTRE TECHN IND MECANIQUE [FR]
• US 5016578 A 19910521 - OGAWA SEIICHI [JP], et al
• US 2014373955 A1 20141225 - FRASER JIM [CA]
• US 6108391 A 20000822 - DEEVER GERALD A [US], et al
• US 2015362203 A1 20151217 - KHALIL ANNELIESE [US]
• US 5531484 A 19960702 - KAWANO MICHIIHIKO [JP]
• ROLAND STEVEN: "Analyse der Einfluss para meter auf die Stromung im Eintritt von Niederdruck-Dampfturbinen", DISSERTATION, Fakultät für Maschinenbau der Ruhr-Universität Bochum, XP055842965, Retrieved from the Internet <URL:https://hss-opus.ub.ruhr-uni-bochum.de/opus4/frontdoor/deliver/index/docId/1255/file/diss.pdf>

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