

Title (en)
COOLING-TOWER FAN AIRFOILS

Title (de)
SCHAUFELPROFILE FÜR EINEN KÜHLTURMVENTILATOR

Title (fr)
PROFILS D'AUBE POUR VENTILATEUR DE TOUR DE REFROIDISSEMENT

Publication
EP 1159530 A1 20011205 (EN)

Application
EP 00908329 A 20000121

Priority
• US 0001434 W 20000121
• US 11898599 P 19990208

Abstract (en)
[origin: WO0046511A1] A family of airfoils (20, 30) for a blade of a cooling-tower fan is provided wherein the blade has a root region and a tip region, and the family of airfoils comprises an airfoil (30) in the root region of the blade having a Reynolds number of 500,000, and an airfoil (20) in the tip region of the blade having a Reynolds of 1,000,000, and wherein each airfoil is characterized by a maximum lift coefficient that is largely insensitive to roughness effects.

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IPC 8 full level
F04D 29/38 (2006.01); **F04D 29/68** (2006.01)

CPC (source: EP)
F04D 29/384 (2013.01); **F04D 29/681** (2013.01); **F05D 2250/74** (2013.01); **Y02T 50/60** (2013.01)

Citation (search report)
See references of WO 0046511A1

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WO 0046511 A1 20000810; AU 2969700 A 20000825; AU 746432 B2 20020502; CA 2361801 A1 20000810; EP 1159530 A1 20011205

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