

Title (en)
Air-driven toy spinning top.

Title (de)
Von Luft angetriebener Kreisel.

Title (fr)
Toupie propulsée par air.

Publication
EP 0077438 A2 19830427 (EN)

Application
EP 82106598 A 19820721

Priority
US 31269981 A 19811019

Abstract (en)
There is provided an air-driven top comprising a turbine chamber wherein air, delivered by an air delivery tube axially through an axial passage, is directed gradually into horizontal air passages in the turbine chamber, and smoothly accelerated such that rotational velocities as high as 25,000 R.P.M. have been measured, using human lung power as the air source. The air passages are separated by turbine vanes of uniform thickness. The air passages extend from substantially radial inner ends continuous with the axial passage in a spiral to substantially tangential outer ends continuous with air discharge ports at the periphery of the top. The top further comprises means for forming an axial point to support the top during rotation and means for generating a whistling sound during rotation.

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A63H 1/08; **A63H 1/28**; **A63H 33/40**

IPC 8 full level
A63F 9/16 (2006.01); **A63H 1/00** (2019.01); **A63H 1/08** (2006.01); **F01D 1/06** (2006.01)

CPC (source: EP US)
A63F 9/16 (2013.01 - EP); **A63H 1/00** (2013.01 - EP US)

Cited by
EP2108416A1; US4772241A; USD859531S; USD838316S; CN104114247A; JP2015509766A; US8066543B2; US7874892B2; WO2013168961A1; US9616351B2; US10137380B2; KR101423672B1

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