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(54) Method of producing a sheet metal fan, and fan produced thereby

(57) The method includes the steps of: preparing a sheet metal disk (28) with a central hole (29) coaxial with an axis (8); subjecting the disk (28) to at least a first drawing operation to form an undulated body (36) having at least a first number of radial undulations (34) defining a first number of blades (7) of the fan (6); and subjecting the undulated body (36) to a second drawing operation to vary the transverse dimension of each of the blades (7) and so obtain the fan (6). More specifically, the first drawing step forms blades (7) tapering axially, and each having a pair of facing converging lateral walls (11), and a connecting wall (12) connecting the lateral walls (11). And the blades (7) are formed by deforming portions of the disk (28) in the same direction.

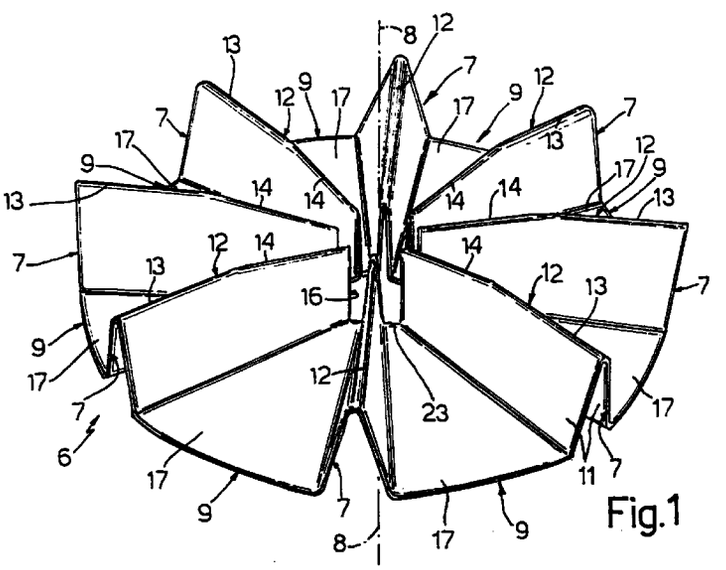

Fig.1

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EUROPEAN SEARCH REPORT

Application Number
EP 98 10 1839

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	US 5 554 004 A (STEWART TIMOTHY J) 10 September 1996 * the whole document *	1,9	B21D53/78 B21D53/26
A	US 3 095 822 A (KIEFER) 2 July 1963 * the whole document *	1,9	
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TECHNICAL FIELDS SEARCHED (Int.Cl.6)

B21D
F04D

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	3 May 1999	Peeters, L

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 98 10 1839

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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03-05-1999

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US 3845903 A	05-11-1974	NONE	

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82