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(71) Applicant: **Mitsubishi Heavy Industries, Ltd.**  
**Tokyo (JP)**

(72) Inventors:  
• **Suzuki, Kazuhiro,**  
**c/o Mitsubishi Heavy Industries**  
**Nishi-kasugai-gun, Aichi-ken (JP)**  
• **Okada, Yuuji, c/o Mitsubishi Heavy Industries**  
**Nishi-kasugai-gun, Aichi-ken (JP)**

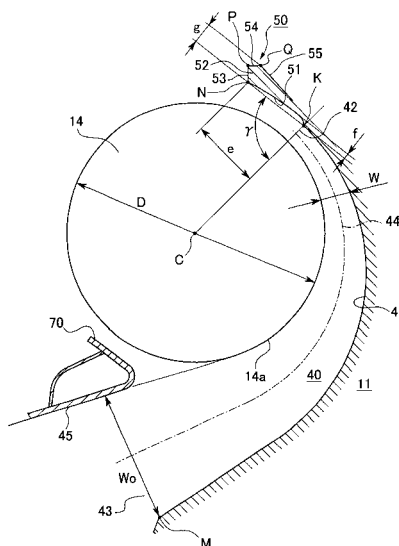
- **Miyazawa, Kenichi/o Mitsubishi Heavy Industries**  
**Nishi-kasugai-gun, Aichi-ken (JP)**
- **Izumi, Hajime, c/o Mitsubishi Heavy Industries**  
**Takasago-shi, Hyogoken (JP)**
- **Suenaga, Kiyoshi,**  
**c/o Mitsubishi Heavy Industries**  
**Takasago-shi, Hyogoken (JP)**
- **Tominaga, Tetsuo,**  
**c/o Mitsubishi Heavy Industries**  
**Takasago-shi, Hyogoken (JP)**
- **Kondou, Fumio, c/o Mitsubishi Heavy Industries**  
**Nakamura-ku, Nagoya-shi, Aichi-ken (JP)**
- **Maeno, Masashi,**  
**c/o Mitsubishi Heavy Industries**  
**Nakamura-ku, Nagoya-shi, Aichi-ken (JP)**

(74) Representative: **Henkel, Feiler, Hänzel**  
**Möhlstrasse 37**  
**81675 München (DE)**

(54) **Indoor unit and air-conditioner**

(57) In an indoor unit, when the fan diameter of a tangential fan (14) is taken to be D, and the width of the intake diaphragm provided on the upstream side of the inlet of an air duct (40) inside the casing is taken to be f,  $f/D$  is within the range of 0.002 to 0.003 ( $0.002 \leq f/D \leq 0.003$ ). In addition, when the width of the outlet of an air duct (40) formed between the outer peripheral surface (14a) of a tangential fan (14) and the air duct wall surface (41) of the casing is taken to be  $W_o$ ,  $W_o/D$  is 0.55 or less ( $W_o/D \leq 0.55$ ). In addition, when a line extending in the direction of flow along the upper surface that forms the discharge port serving as the air duct outlet in the casing is taken to be a, the stabilizer tongue end angle  $\alpha$ , which is formed between the surface of the stabilizer opposing tangential fan (14) and the extended line a, is within the range of 50 degrees to 60 degrees ( $50 \text{ degrees} \leq \alpha \leq 60 \text{ degrees}$ ). In addition, when the distance between the extended line a and a tangent b of the fan diameter D parallel to said extended line a is taken to be d,  $d/D$  is within the range of -0.2 to 0.2 ( $-0.2 \leq d/D \leq 0.2$ ).

FIG. 2





European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 02 00 6380

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The present search report has been drawn up for all claims			
Place of search <b>MUNICH</b>		Date of completion of the search <b>31 October 2002</b>	Examiner <b>Lienhard, D</b>
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
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