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(71) Applicant: **Kabushiki Kaisha Toyota Chuo
Kenkyusho
Aichi-Gun
Aichi 480-1192 (JP)**

(72) Inventors:
• **Kawahara, Hiroshi
Nagakute-cho
Aichi-gun
Aichi-ken, 480-1192 (JP)**
• **Ikuno, Hajime
Nagakute-cho
Aichi-gun
Aichi-ken, 480-1192 (JP)**

- **Hohjo, Hiroshi
Nagakute-cho
Aichi-gun
Aichi-ken, 480-1192 (JP)**
- **Hotta, Shoji
Nagakute-cho
Aichi-gun
Aichi-ken, 480-1192 (JP)**
- **Ueda, Isamu
Nagakute-cho
Aichi-gun
Aichi-ken, 480-1192 (JP)**
- **Yamada, Akira
Nagakute-cho
Aichi-gun
Aichi-ken, 480-1192 (JP)**

(74) Representative: **Kramer - Barske - Schmidtchen
European Patent Attorneys
Landsberger Strasse 300
80687 München (DE)**

(54) **Aluminum alloys for casting, aluminum alloy castings and process for producing aluminum alloy castings**

(57) (Assignment)
To provide an aluminum alloy casting with excellent strength, fatigue resistance, etc.

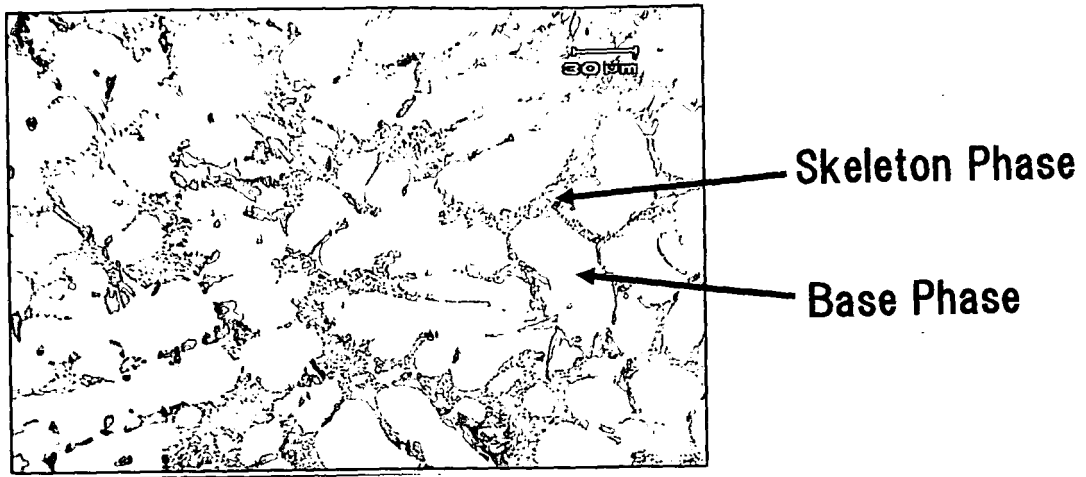
(Solution)

An aluminum alloy casting according to the present invention includes 4-12% Si, 1.0-3.0% Cu, 0.2-0.6% Mg, 0.2-3% Ni, 0.1-0.7% Fe, 0.1-0.3% Ti, 0.03-0.5% Zr, balance Al and inevitable impurities, when the entirety is taken as 100% by mass and has a metallographic struc-

ture, comprising a base phase mainly consisting of α -Al, a skeleton phase which is crystallized to surround the base phase in a network configuration, and the first and second precipitation phases which are precipitated in the base phase and have different particle sizes. This aluminum alloy casting has an excellent thermal fatigue strength as well as high strength and high fatigue strength as a base material.

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Fig. 1A





EUROPEAN SEARCH REPORT

Application Number
EP 08 00 5905

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Place of search The Hague		Date of completion of the search 11 August 2010	Examiner Vlassi, Eleni
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