



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 1 153 706 B8**

(12) **CORRECTED EUROPEAN PATENT SPECIFICATION**

Note: Bibliography reflects the latest situation

(15) Correction information:
Corrected version no 1 (W1 B1)
INID code(s) 73

(51) Int Cl.7: **B23Q 3/155**, G05B 19/406,
B23B 31/117, B23Q 17/00

(48) Corrigendum issued on:
21.07.2004 Bulletin 2004/30

(45) Date of publication and mention
of the grant of the patent:
31.03.2004 Bulletin 2004/14

(21) Application number: **01110155.7**

(22) Date of filing: **04.05.2001**

(54) **Machine tool with service life end detection means**

Werkzeugmaschine mit Mittel zur Detektion des Endes der Lebensdauer

Machine-outil avec détection de la fin de la durée de vie

(84) Designated Contracting States:
DE FR GB IT

(30) Priority: **08.05.2000 JP 2000134509**

(43) Date of publication of application:
14.11.2001 Bulletin 2001/46

(73) Proprietors:
• **Mori Seiki Co., Ltd.**
Nara 639-1160 (JP)
• **Intelligent Manufacturing Systems International**
Sacramento, CA 95814 (US)

(72) Inventors:
• **Akamatsu, Yoshiaki**
Yamatokoriyama-shi, Nara 639-1160 (JP)
• **Fujishima, Makoto**
Yamatokoriyama-shi, Nara 639-1160 (JP)

(74) Representative:
Reinhard - Skuhra - Weise & Partner
Friedrichstrasse 31
80801 München (DE)

(56) References cited:
DE-A- 19 629 991 **US-A- 4 398 136**

- **PATENT ABSTRACTS OF JAPAN vol. 010, no. 388 (M-549), 25 December 1986 (1986-12-25) & JP 61 178159 A (YAMAZAKI MAZAK CORP), 9 August 1986 (1986-08-09)**
- **PATENT ABSTRACTS OF JAPAN vol. 011, no. 114 (M-579), 10 April 1987 (1987-04-10) & JP 61 257744 A (MITSUBISHI HEAVY IND LTD), 15 November 1986 (1986-11-15)**

Note: Within nine months from the publication of the mention of the grant of the European patent, any person may give notice to the European Patent Office of opposition to the European patent granted. Notice of opposition shall be filed in a written reasoned statement. It shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

EP 1 153 706 B8