

Title (en)
MANUAL SCANNING TYPE PRINTING DEVICE

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EP 0342697 A3 19900425 (EN)

Application
EP 89109062 A 19890519

Priority
JP 6585388 U 19880520

Abstract (en)
[origin: EP0342697A2] A manual scanning type printing device formed with a long and narrow cylindrical shape is disclosed. Casing member (14) has a longitudinal hollow portion. An ink tape cassette (21) is received in the hollow portion. A thermal head (24) and a rubber roller (29) rotating on recording paper are arranged below the ink tape cassette mounting section. A driving gear (31) is coaxially coupled with the rubber roller (29). A take-up gear (41) having a take-up shaft (42) for taking up the ink tape is arranged in the ink tape cassette receiving section of the hollow portion. Further, a plurality of intermediate gears (32 to 40) are arranged between the driving gear (31) and take-up gear (41). An encode plate (36) is coaxially coupled with one of the intermediate gears (32 to 40). The intermediate gears, encode plate and take-up gear are linearly arranged in the longitudinal direction along the hollow portion so that a practical pen type manual scanning type printing device whose width is small can be attained.

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CPC (source: EP)
B41J 3/28 (2013.01)

Citation (search report)

- [X] EP 0249212 A2 19871216 - CASIO COMPUTER CO LTD [JP]
- [A] EP 0138444 A2 19850424 - TOSHIBA KK [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 12, no. 83 (M-677)(2930) 16 March 1988, & JP-A-62 225372 (S. ICHINOSE) 03 October 1987,
- [A] PATENT ABSTRACTS OF JAPAN vol. 10, no. 181 (M-492)(2237) 25 June 1986, & JP-A-61 29563 (G. OOTA) 10 February 1986,

Cited by
WO9821039A1

Designated contracting state (EPC)
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EP 0342697 A2 19891123; EP 0342697 A3 19900425; JP H01169337 U 19891129

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