

Title (en)
Coil material feeding apparatus

Title (de)
Vorschubeinrichtung für Bandmaterial

Title (fr)
Dispositif d'avance pour bandes

Publication
EP 1413371 B1 20051207 (EN)

Application
EP 03256578 A 20031017

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Abstract (en)
[origin: EP1413371A2] In a coil material (11) feeding apparatus (13) which has a reduced bouncing in spite of a high speed operation, can lower the load of the intermittent feeding apparatus (13), and can shorten the line length of the press stamping line (27), a position sensor (23,24) for detecting a loop amount of a coil material (11) and a coil material feeding portion (22) are provided, the coil material feeding portion (22) is provided with feeding rollers (14,15) and a material correcting portion (19), and a mounting angle of the coil material feeding portion (22) can be changed in correspondence to a thickness of the coil material (11) and the like. <IMAGE>

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Cited by
CN113264401A; CN103381451A; CN114955638A; EP1916042A1; US8136215B2; WO2007147721A1; WO2023217601A1

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