

Title (en)  
Embossing roller for an embossing device

Title (de)  
Prägewalze für eine Prägevorrichtung

Title (fr)  
Cylindre de gaufrage pour outil de gaufrage

Publication  
**EP 0835181 B1 19991222 (DE)**

Application  
**EP 96909045 A 19960406**

Priority  
• DE 9600649 W 19960406  
• DE 19523441 A 19950628

Abstract (en)  
[origin: US5937759A] PCT No. PCT/DE96/00649 Sec. 371 Date Nov. 25, 1997 Sec. 102(e) Date Nov. 25, 1997 PCT Filed Apr. 6, 1996 PCT Pub. No. WO97/01442 PCT Pub. Date Jan. 16, 1997 Described is a stamping roller (10) intended for a stamping apparatus, which roller has a central carrier roller (12) and stamping punch portions (24) which are spaced from each other in the peripheral direction, wherein fixed to the carrier roller is at least one punch ring whose two axially mutually spaced edge portions are designed with spacer rings (26) for the defined contact of at least one associated backing roller (28), and the punch ring (20) is designed with the stamping punch portions (24) between the two spacer rings (26). The/each punch ring (20) is matched to the carrier roller (12) in respect of dimensions and material in such a way that the/each punch ring (20) is displaceable on the carrier roller (12) at ambient temperature and at elevated stamping or operating temperature of the stamping roller (10) thermal expansion fixes the/each punch ring (20) on the carrier roller (12). The or each punch ring (20) has a heat-insulation portion between the two lateral spacer rings (26) and between adjacent punch portions (24). Lateral cover means (34) adjoin the/each punch ring (20).

IPC 1-7  
**B41F 19/06; B44B 5/02**

IPC 8 full level  
**B41F 16/00** (2006.01); **B41F 19/02** (2006.01); **B41F 19/06** (2006.01); **B44B 5/00** (2006.01); **B44B 5/02** (2006.01)

CPC (source: EP KR US)  
**B41F 19/06** (2013.01 - KR); **B44B 5/0009** (2013.01 - EP US); **B44B 5/02** (2013.01 - KR); **B44B 5/026** (2013.01 - EP US)

Designated contracting state (EPC)  
AT CH DE DK ES FI LI SE

DOCDB simple family (publication)  
**US 5937759 A 19990817**; AT E187927 T1 20000115; AU 5269996 A 19970130; AU 693680 B2 19980702; BG 102128 A 19980731; BG 62799 B1 20000831; BR 9608948 A 19990302; CA 2224815 A1 19970116; CA 2224815 C 20040914; CN 1077504 C 20020109; CN 1189128 A 19980729; CZ 285936 B6 19991117; CZ 415497 A3 19980812; DE 19523441 A1 19970102; DE 19680498 D2 19980723; DE 59603987 D1 20000127; EP 0835181 A1 19980415; EP 0835181 B1 19991222; ES 2140836 T3 20000301; JP 3095081 B2 20001003; JP H11509144 A 19990817; KR 100329986 B1 20020827; KR 19990028650 A 19990415; NO 310336 B1 20010625; NO 975825 D0 19971211; NO 975825 L 19971216; NZ 304826 A 19990225; TW 330858 B 19980501; WO 9701442 A1 19970116

DOCDB simple family (application)  
**US 98113697 A 19971125**; AT 96909045 T 19960406; AU 5269996 A 19960406; BG 10212897 A 19971218; BR 9608948 A 19960406; CA 2224815 A 19960406; CN 96195130 A 19960406; CZ 415497 A 19960406; DE 19523441 A 19950628; DE 19680498 T 19960406; DE 59603987 T 19960406; DE 9600649 W 19960406; EP 96909045 A 19960406; ES 96909045 T 19960406; JP 50407697 A 19960406; KR 19970709972 A 19971229; NO 975825 A 19971211; NZ 30482696 A 19960406; TW 85105126 A 19960430