

Title (en)

Externally heated deformable toner fixing roll

Title (de)

Extern beheizte verformbare Tonerfixierwalze

Title (fr)

Rouleau de fixage de toner déformable chauffé de l'extérieur

Publication

EP 1195661 A2 20020410 (DE)

Application

EP 01123266 A 20011004

Priority

US 67934500 A 20001004

Abstract (en)

Fixing roller has solid core, covered by elastic, deformable structure. Deformable structure has transverse expansion value of 0.2 to 0.4 to reduce differential overdrive of the fixing unit. Fixing roller has rigid, cylindrical core (21), surrounded by exchangeable cover closely fitted but not adhering to core. Roller is heated by external heat sources (40,42). Cover has base padded layer formed on strengthening band, stiffening layer surrounding base padded layer in close contact with it, toner separating layer formed on stiffening layer. Base padded layer is made of foam of transverse expansion value of 0.2 to 0.4 for overdrive control, toner release layer has more than 0.4 transverse expansion value. Roller has specification number marked on it for reading by specification detector. Independent claim of procedure to form deformable toner fixing roller.

Abstract (de)

Eine verformbare Tonerfixierwalze (20) zur Verwendung in einer Fixierstation (100, 200) eines elektrostatisierenden Apparats mit einem steifen zylindrischen Kernelement (11) dass eine elastisch verformbare Struktur (15) mit Overdrivekontrolle umfasst, wobei die Tonerfixierwalze (20) so angepasst ist, dass sie von einer Wärmequelle (40,42), die außerhalb der Tonerfixierwalze (20) liegt, beheizt wird und dass die verformbare Struktur (15) mit Overdrivekontrolle eine Querdehnzahl zwischen 0,2 und 0,4 aufweist. <IMAGE>

IPC 1-7

G03G 15/20

IPC 8 full level

F16C 13/00 (2006.01); **G03G 15/20** (2006.01)

CPC (source: EP US)

G03G 15/2053 (2013.01 - EP US)

Cited by

WO2013067422A1; US9032877B2; US9291906B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1195661 A2 20020410; **EP 1195661 A3 20050202**; DE 10148939 A1 20020411; JP 2002116648 A 20020419; US 6463250 B1 20021008

DOCDB simple family (application)

EP 01123266 A 20011004; DE 10148939 A 20011004; JP 2001173014 A 20010607; US 67934500 A 20001004