

Title (en)

DISPENSING MACHINE FOR ROLLED OR Z-FOLDED WIPING MATERIAL DISPENSED AS CONCERTINA-FOLDED STRIPS

Publication

**EP 0387160 B1 19930203 (FR)**

Application

**EP 90420109 A 19900301**

Priority

FR 8903417 A 19890303

Abstract (en)

[origin: EP0387160A1] The dispensing machine is characterised in that it is fitted with a damping device (N) whose active part is disposed in order to act periodically on the tension of the strip between the roll storage spindle and the means (H) of transfer and of conformation and to automatically form, after each dispensing of folded strip by tension on the protruding strip and by rotational driving of the roll of material, a loop (b) of unrolled material which will be retracted during the tension applied to the following strip, thus avoiding any unexpected tearing of the material. <IMAGE>

IPC 1-7

**A47K 10/34**

IPC 8 full level

**A47K 10/26** (2006.01); **A47K 10/28** (2006.01); **A47K 10/34** (2006.01)

CPC (source: EP KR)

**A47K 10/24** (2013.01 - KR); **A47K 10/34** (2013.01 - EP)

Cited by

WO2012052653A1; FR3001623A1; FR2968530A1; FR2970167A1; FR2966034A1; FR2967040A1; FR2973211A1; US9526382B2; US9872589B2; WO2014118483A1; WO2012076776A1; WO2012168582A1; WO2012095568A1; WO2012062984A3; WO2010089467A1; US8939392B2; US9375118B2; US9408505B2; US9375117B2

Designated contracting state (EPC)

AT BE CH DE DK ES GB GR IT LI LU NL SE

DOCDB simple family (publication)

**EP 0387160 A1 19900912; EP 0387160 B1 19930203**; AT E85198 T1 19930215; AU 5018590 A 19900906; AU 637345 B2 19930527; BR 9000995 A 19910219; CA 2011272 A1 19900903; CA 2011272 C 19990330; DE 69000841 D1 19930318; DE 69000841 T2 19930603; DK 0387160 T3 19930419; ES 2038503 T3 19930716; FR 2643808 A1 19900907; FR 2643808 B1 19910712; GR 3007364 T3 19930730; JP H02265517 A 19901030; KR 0138990 B1 19980701; KR 900013914 A 19901022; PT 93336 A 19911231; PT 93336 B 19971231; ZA 901436 B 19911224

DOCDB simple family (application)

**EP 90420109 A 19900301**; AT 90420109 T 19900301; AU 5018590 A 19900226; BR 9000995 A 19900302; CA 2011272 A 19900301; DE 69000841 T 19900301; DK 90420109 T 19900301; ES 90420109 T 19900301; FR 8903417 A 19890303; GR 930400569 T 19930316; JP 4916990 A 19900228; KR 900002754 A 19900302; PT 9333690 A 19900302; ZA 901436 A 19900226