

Title (en)
THERMAL PRINTER AND ITS CUTTING UNIT

Title (de)
THERMODRUCKER UND SEINE SCHNEIDEINHEIT

Title (fr)
IMPRIMANTE THERMIQUE ET SON UNITÉ DE DÉCOUPE

Publication
EP 4063136 B1 20231018 (EN)

Application
EP 22163752 A 20220323

Priority
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Abstract (en)
[origin: EP4063136A1] A printing unit (4) includes: a head unit (5) including a thermal head (25) configured to perform printing on a recording sheet (P); a platen unit (6) which is detachably combined with the head unit (5), and includes a platen roller (45) configured to convey the recording sheet (P); a fixed blade (46) provided on one of the head unit (5) and the platen unit (6); and a movable blade (26) provided on another one of the head unit (5) and the platen unit (6) so as to be movable relative to the fixed blade (46), wherein the another one of the head unit (5) and the platen unit (6) includes: a rack member (300) coupled to the movable blade (26) so as to be movable integrally with the movable blade (26); a drive mechanism (27) which includes a drive pinion (78) allowed to mesh with the rack member (300), and is configured to move the movable blade (26) between a standby position at which the movable blade (26) is away from the fixed blade (46) and a cutting position at which the movable blade (26) climbs over the fixed blade (46); and a return mechanism (29) which includes a return pinion (131) allowed to mesh with the rack member (300), and is configured to move the movable blade (26) from the cutting position to the standby position side under a state in which the movable blade (26) is stopped at the cutting position, wherein the rack member (300) includes: a drive rack (71) including a plurality of drive rack teeth (71a) allowed to mesh with the drive pinion (78); and a return rack (130) which is formed independently of the drive rack (71), and includes a plurality of return rack teeth (130a) allowed to mesh with the return pinion (131).

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