

Title (en)
Binding apparatus with a tape.

Title (de)
Bindeapparat mit Streifen.

Title (fr)
Appareil de liage avec du ruban.

Publication
EP 0321623 A1 19890628 (EN)

Application
EP 87311424 A 19871223

Priority
EP 87311424 A 19871223

Abstract (en)
A binding apparatus with a tape (T) in which the tip of a heat-bonding tape reeled out from a reel is rotated substantially by one revolution to form a tape loop, the tape (T) is further reeled out from the reel to enlarge the loop in size, an article to be bound is inserted into the loop, the tape is reeled in such that the tape is wound round the article to be bound, the tip of the tape where the tape starts winding and the end thereof, where the winding terminates, are heated and bonded to each other as pressurized by pressurizing and heating means (5), and the tape is cut at its predetermined portion. Until the tape bonded portion is cooled to complete or substantially complete the bonding after the pressurizing and heating means (5) has been separated from the tape (T), the tape bonded portion is still continuously pressed to prevent the bonded surfaces of the tape (T) from coming off from each other, assuring reliable binding.

IPC 1-7
B65B 13/22; **B65B 13/32**

IPC 8 full level
B65B 13/22 (2006.01); **B65B 13/32** (2006.01)

CPC (source: EP)
B65B 13/22 (2013.01); **B65B 13/32** (2013.01)

Citation (search report)
• [Y] US RE31353 E 19830823
• [Y] US 4174995 A 19791120 - FERGUSON SAMMY J [US], et al
• [A] GB 489050 A 19380719 - JAMES RICHARD SUTTON
• [A] CH 403621 A 19651130 - GIRSBERGER EMIL [CH], et al
• [Y] EP 0189519 A2 19860806 - NICHIRO KOGYO KK [JP]

Cited by
DE4014307A1; EP0432464A1; EP0413210A1; CN107592850A; CN104118593A; CN107697339A; US6053387A

Designated contracting state (EPC)
CH DE FR IT LI

DOCDB simple family (publication)
EP 0321623 A1 19890628; **EP 0321623 B1 19911121**; DE 321623 T1 19891026; DE 3774713 D1 19920102

DOCDB simple family (application)
EP 87311424 A 19871223; DE 3774713 T 19871223; DE 87311424 T 19871223