

Title (en)  
ARRANGEMENT FOR HEATING A RUNNING THREAD

Title (de)  
HEIZEINRICHTUNG FÜR EINEN LAUFENDEN FADEN

Title (fr)  
DISPOSITIF PERMETTANT DE CHAUFFER UN FIL MOBILE

Publication  
**EP 0644960 B1 19990915 (DE)**

Application  
**EP 93912889 A 19930604**

Priority

- DE 4218809 A 19920606
- DE 4222631 A 19920710
- DE 4228129 A 19920825
- DE 4232066 A 19920924
- DE 4233731 A 19921007
- DE 4237092 A 19921103
- DE 4239301 A 19921123
- DE 4244124 A 19921224
- EP 9301417 W 19930604

Abstract (en)  
[origin: US5760374A] PCT No. PCT/EP93/01417 Sec. 371 Date Mar. 9, 1995 Sec. 102(e) Date Mar. 9, 1995 PCT Filed Jun. 4, 1993 PCT Pub. No. WO93/25739 PCT Pub. Date Dec. 23, 1993An apparatus for heating an advancing thermoplastic yarn led over heating ridges along a heated surface. An essential feature of the invention is that the heating ridges can be maintained at a temperature as high as that of the heating surface, in particular at a temperature sufficient for ensuring a self-cleaning effect, without damaging the yarn. If required, the heat flow on the yarn may also be regulated by adjusting the height of the heating ridges and/or by modifying the length of contact with the yarn.

IPC 1-7  
**D02J 13/00**

IPC 8 full level  
**D02J 13/00** (2006.01)

CPC (source: EP KR US)  
**D02J 13/00** (2013.01 - EP KR US)

Designated contracting state (EPC)  
CH DE FR GB IT LI

DOCDB simple family (publication)  
**US 5760374 A 19980602**; CN 1083548 A 19940309; CN 1110587 C 20030604; DE 59309787 D1 19991021; EP 0644960 A1 19950329; EP 0644960 B1 19990915; JP 3634860 B2 20050330; JP H07506879 A 19950727; KR 950701992 A 19950517; KR 970002558 B1 19970306; WO 9325739 A1 19931223

DOCDB simple family (application)  
**US 35127395 A 19950309**; CN 93106698 A 19930605; DE 59309787 T 19930604; EP 9301417 W 19930604; EP 93912889 A 19930604; JP 50109394 A 19930604; KR 19940074458 A 19941206; KR 19940704458 A 19941206