

Title (en)  
IMPROVED GILL BOXES WITH ROTATING HEADS

Publication  
**EP 0070953 B1 19861029 (EN)**

Application  
**EP 81830075 A 19810731**

Priority  
EP 81830075 A 19810731

Abstract (en)  
[origin: EP0070953A1] The invention concerns an improved gill box with rotating heads, which comprises a plurality of needles acting on an assemblage of slivers fed substantially continuously and consists of a feeder group (59-60-61), a group which controls the fibres and is constituted by two heads with combs (20-21) superimposed one above the other and rotating in cooperation, and a drawing group (54-55-58). Said gill box can comprise in reciprocal cooperation and co-ordination at least part of the following improvements: opposed rotating means (17) to guide (15-30) the ends (23) of the combs (22): stationary guide-cam means (27-28) cooperating in an intermediate position between the needle field (24) and said rotating guide means (17): means (36-38) to lubricate said rotating guides (16-30): means to feed (32-34) and convey (35) fluid under pressure into the zone of the outgoing sliver (44-45) and inside every needle field (24): means (46-47) to ensure a differentiated path of insertion of the needles (29) into the sliver: means (44-45-16-30-22) for a perpendicular and non-interfering withdrawal of the needles (29) from the sliver: means (48-49) for individual protrusion of the combs (22) for better cleaning (62) of the needles (29): pulling means (17-18-19) always in phase with said rotating guide means (17): means (17-18-19) to reduce angular play: means (54-55) to reduce the distance travelled by the outgoing sliver.

IPC 1-7  
**D01H 5/02**

IPC 8 full level  
**D01H 5/02** (2006.01)

CPC (source: EP)  
**D01H 5/02** (2013.01)

Designated contracting state (EPC)  
AT BE CH DE FR GB LI LU NL SE

DOCDB simple family (publication)  
**EP 0070953 A1 19830209; EP 0070953 B1 19861029; AT E23201 T1 19861115; DE 3175529 D1 19861204**

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**EP 81830075 A 19810731; AT 81830075 T 19810731; DE 3175529 T 19810731**