

Title (en)

Apparatus for bending hollow spaces frames.

Title (de)

Vorrichtung zum Biegen von Hohlprofileisen.

Title (fr)

Dispositif pour plier des profilés d'écartement creux.

Publication

EP 0462961 B1 19940309 (DE)

Application

EP 91890098 A 19910507

Priority

- AT 112690 A 19900521
- AT 184090 A 19900910

Abstract (en)

[origin: US5117669A] An apparatus for bending hollow profile strips (1) into spacer frames for insulating glass planes includes a clamp for the hollow profile strip, which clamp can be brought into contact with the lateral surfaces of the hollow profile strip (1), an abutment (20), about which the hollow profile strip (1) is bent, and a pivotable bending lever (50). The abutment (20) is exchangeably attached to a support (21) and can be moved into and out of its operative position by pivoting the support (21) about an axis perpendicular to the plane of symmetry of the clamp (2) and by shifting the support (21) perpendicularly to the plane of symmetry of the clamp (2).

IPC 1-7

B21D 53/74; **E06B 3/66**

IPC 8 full level

B21D 7/024 (2006.01); **B21D 7/06** (2006.01); **B21D 53/74** (2006.01); **E06B 3/66** (2006.01); **E06B 3/673** (2006.01)

CPC (source: EP US)

B21D 53/74 (2013.01 - EP US); **E06B 3/67313** (2013.01 - EP US); **E06B 2003/67395** (2013.01 - EP US)

Cited by

WO2020070245A1

Designated contracting state (EPC)

AT CH DE DK ES FR GB IT LI SE

DOCDB simple family (publication)

US 5117669 A 19920602; AT E102514 T1 19940315; DE 4116268 A1 19911212; DE 4116268 C2 19930218; DE 59101140 D1 19940414; DK 0462961 T3 19940405; EP 0462961 A1 19911227; EP 0462961 B1 19940309; EP 0462961 B2 19980909; ES 2051109 T3 19940601; IT 221861 Z2 19941206; IT 221862 Z2 19941206; IT MI910429 U1 19921120; IT MI910429 V0 19910520; IT MI910430 U1 19921120; IT MI910430 V0 19910520; JP H0768323 A 19950314; NO 179684 B 19960819; NO 179684 C 19961127; NO 911926 D0 19910516; NO 911926 L 19911122

DOCDB simple family (application)

US 70112491 A 19910516; AT 91890098 T 19910507; DE 4116268 A 19910517; DE 59101140 T 19910507; DK 91890098 T 19910507; EP 91890098 A 19910507; ES 91890098 T 19910507; IT MI910429 U 19910520; IT MI910430 U 19910520; JP 14553291 A 19910521; NO 911926 A 19910516