

Title (en)
Supporting beam

Title (de)
Tragbalken

Title (fr)
Poutrelle de support

Publication
EP 1211053 B1 20090930 (DE)

Application
EP 01128122 A 20011127

Priority
DE 10059281 A 20001129

Abstract (en)
[origin: EP1211053A2] The carrier beam (4,4'), for a paper and/or web coating machine (6), is a longitudinal and hollow body with a round or polygonal cross section of a fiber compound material produced by winding. The fiber compound material has a longitudinal module of elasticity of ≥ 100 GPa and a thermal expansion of $\leq 2 \times 10^{-6}$ 1 divided by K. The fiber orientation has one fiber component where 70-90% is axially parallel and a fiber component where 10-30% is aligned in the peripheral direction. The carrier beam for a paper and/or web coating machine has the first fiber component aligned at an angle of up to 15 degrees to the longitudinal axis, and the second fiber component is pitched at an angle of 75-90 degrees to the longitudinal axis. The fiber compound material can be a plastics reinforced with glass or carbon fibers. An Independent claim is included for a web coating machine, using a liquid or paste coating medium to be applied to the surface of a moving web (3) of paper or cardboard. At least one applicator and/or doctor (6,6') is supported on the carrier beam.

IPC 8 full level
B29C 63/08 (2006.01); **B05C 11/04** (2006.01); **D21G 3/00** (2006.01); **D21H 19/00** (2006.01); **E04C 2/22** (2006.01); **D21H 23/32** (2006.01)

CPC (source: EP US)
B05C 11/044 (2013.01 - EP US); **D21G 3/005** (2013.01 - EP US); **D21H 23/32** (2013.01 - EP US); **Y10T 428/1314** (2015.01 - EP US); **Y10T 428/2904** (2015.01 - EP US)

Cited by
CN104368503A; CN108787312A; AT16455U1; WO2006013130A1; EP2811070B1

Designated contracting state (EPC)
AT DE FI SE

DOCDB simple family (publication)
EP 1211053 A2 20020605; **EP 1211053 A3 20060531**; **EP 1211053 B1 20090930**; AT E444155 T1 20091015; DE 10059281 A1 20020606; DE 50115130 D1 20091112; US 2002102372 A1 20020801; US 6672028 B2 20040106

DOCDB simple family (application)
EP 01128122 A 20011127; AT 01128122 T 20011127; DE 10059281 A 20001129; DE 50115130 T 20011127; US 99422101 A 20011126