

Title (en)

TWISTING APPARATUS FOR STRANDING MACHINES, IN PARTICULAR A PRETWISTING AND DRAWING APPARATUS

Publication

EP 0088993 B1 19850529 (DE)

Application

EP 83102286 A 19830309

Priority

- DE 3209169 A 19820313
- DE 3226572 A 19820716

Abstract (en)

[origin: WO8303268A1] In a twisting device provided with a rotor supporting frame (1) and a pulling wheel (10) disposed transversally to its shaft (12), it is important to avoid as much as possible the effects of the gyroscopic and centrifugal forces on the frame. For this purpose, a rotary member (13) positioned on the shaft (12) rotates in the opposite direction. The shape, the size, the masses and/or the rotation speeds of the pulling wheel (10) and the rotary member (13) as well as other rotating members (26, 25, 14, 27, 28, 34, 33, 15, 35, 36) are selected so that the products of the moment of inertia of the mass and of the angular speed of the members revolving in opposite directions are approximately the same. The pulling wheel (10) and the rotary member (13) are positioned on the common shaft (12) by means of hollow shafts (28, 36). The hollow shafts (28, 36) are rotatably supported (31, 32; 38, 39) by the shaft (12) in order to dampen the centrifugal forces directed against the frame (1). The product of the total mass of the element (25, 26, 14, 27, 28, 31, 32, 12, 24) cooperating with the pulling wheel (10) and the distance between their common barycentre and the longitudinal axis of the frame (1) is approximately equal to the product of the total mass of the members (33, 34, 15, 35, 36, 38, 39, 24, 12) cooperating with the rotary member (13) and the distance between their common barycentre and the longitudinal axis of the frame (1).

IPC 1-7

D07B 3/10; **D07B 7/02**

IPC 8 full level

D07B 3/10 (2006.01); **D07B 7/02** (2006.01)

CPC (source: EP US)

D07B 3/10 (2013.01 - EP US); **D07B 7/02** (2013.01 - EP US); **D07B 2207/409** (2013.01 - EP US)

Cited by

CN102653928A; FR2628765A1

Designated contracting state (EPC)

AT CH FR GB IT LI

DOCDB simple family (publication)

EP 0088993 A1 19830921; **EP 0088993 B1 19850529**; AU 1228683 A 19831024; AU 556418 B2 19861030; DD 208834 A5 19840411; JP H0255555 B2 19901127; JP S59500378 A 19840308; SU 1209038 A3 19860130; US 4549394 A 19851029; WO 8303268 A1 19830929

DOCDB simple family (application)

EP 83102286 A 19830309; AU 1228683 A 19830309; DD 24879483 A 19830314; EP 8300070 W 19830309; JP 50083883 A 19830309; SU 3661202 A 19831111; US 55713783 A 19831020