

Title (en)
YARN TENSION DEVICE

Title (de)
FADENBREMSVORRICHTUNG

Title (fr)
DISPOSITIF TENDEUR

Publication
EP 0989951 A1 20000405 (DE)

Application
EP 99920671 A 19990414

Priority
• DE 29806739 U 19980415
• EP 9902523 W 19990414

Abstract (en)
[origin: WO9952806A1] The invention relates to a yarn tension device, especially a two-disk brake for textile threads (4) running off of creels (1), comprising two pairs (32, 33) of brake disks through which the same thread passes. The upper and lower disks (32', 33', 32'', 33'') of these pairs are adjustably pressed together in order to tense the thread (4) passing through, by means of a two-armed disk lever (17). Said lever is located underneath the pairs (32, 33) of brake disks, from which location it can influence the pressure loads of one of the disk pairs (32, 33) with one lever arm (17', 17'') respectively. The yarn tension device also has a pressure regulating device which acts on the disk lever (17). The aim of the invention is to provide a device of this type which can be used for fine threads with pressure forces starting from zero and for coarser threads with much greater pressure forces, without having to change the pressure-regulating device or its springs (20). To this end, the two-armed disk lever (17) is able to raise the lower disks (32', 33') of the pairs (32, 33) of brake disks out of an operating position in which the upper disks (32'', 33'') are subjected to practically no pressure and the pressure-regulating device acts on the disk lever (17) with a rocking lever (15). Said rocking lever has working points of an actuating power-producing element (20) which are situated at different distances from the disk lever (17).

IPC 1-7
B65H 59/22

IPC 8 full level
B65H 59/22 (2006.01)

CPC (source: EP US)
B65H 59/225 (2013.01 - EP US); **B65H 2701/31** (2013.01 - EP US)

Citation (search report)
See references of WO 9952806A1

Cited by
CN112919247A

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

DOCDB simple family (publication)
DE 29806739 U1 19990902; BR 9906354 A 20000919; CN 1138692 C 20040218; CN 1263509 A 20000816; DE 59900177 D1 20010906; EP 0989951 A1 20000405; EP 0989951 B1 20010801; ES 2161565 T3 20011201; TR 199903078 T1 20001121; US 6283399 B1 20010904; WO 9952806 A1 19991021

DOCDB simple family (application)
DE 29806739 U 19980415; BR 9906354 A 19990414; CN 99800544 A 19990414; DE 59900177 T 19990414; EP 9902523 W 19990414; EP 99920671 A 19990414; ES 99920671 T 19990414; TR 9903078 T 19990414; US 42446599 A 19991123