

Title (en)  
Yarn feeding device

Title (de)  
Fadenliefergerät

Title (fr)  
Appareil fournisseur de fil

Publication  
**EP 0831049 A3 19980610 (DE)**

Application  
**EP 97116577 A 19970923**

Priority  
DE 19639036 A 19960923

Abstract (en)  
[origin: EP0831049A2] A yarn feed mechanism has a damped spring (S) acting on the sensor units (19, 19') of a non-contact yarn sensor at the yarn store body (15) with the yarn coils. The sensor units pivot on an axis (28') between an inner position (B) and an outer position (A), with the spring pressure applied towards the outer position (A). Preferably the spring (S) has a slightly increasing and preferably generally horizontal spring characteristic, at least within the distortion zone between the outer and inner positions (A, B). The spring (S) is a coiled leg spring with several coiled windings (29) round the swing axes (28') of the sensors (19, 19'), with a free projecting leg (31). An axis bolt (28) is within the spring coils (29). At least one spring support leg (30) is attached to the yarn store body, from one end of the spring coils (29) away from the free projecting leg (31).

IPC 1-7  
**B65H 51/22**

IPC 8 full level  
**B65H 51/22** (2006.01); **D03D 47/36** (2006.01)

CPC (source: EP)  
**D03D 47/367** (2013.01); **B65H 2601/524** (2013.01)

Citation (search report)  
• [AD] US 4676442 A 19870630 - THOLANDER LARS H G [SE], et al  
• [A] EP 0464444 A1 19920108 - SOBREVIN [LI]

Cited by  
EP1788129A3

Designated contracting state (EPC)  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**EP 0831049 A2 19980325; EP 0831049 A3 19980610; EP 0831049 B1 20011212**; DE 19639036 A1 19980326; DE 59705750 D1 20020124

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