(12)

Europäisches Patentamt

European Patent Office

Office européen des brevets



EP 1 052 365 A3

### EUROPEAN PATENT APPLICATION

(88) Date of publication A3: **06.12.2000 Bulletin 2000/49** 

(51) Int. Cl.<sup>7</sup>: **E06B 9/308**, E06B 9/307

(43) Date of publication A2: 15.11.2000 Bulletin 2000/46

(21) Application number: 00303940.1

(22) Date of filing: 10.05.2000

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 11.05.1999 EP 99201457

(71) Applicant:

HUNTER DOUGLAS INDUSTRIES B.V. 3071 EL Rotterdam (NL)

(72) Inventors:

Oskam, Herman
 2855 AK Vlist (NL)

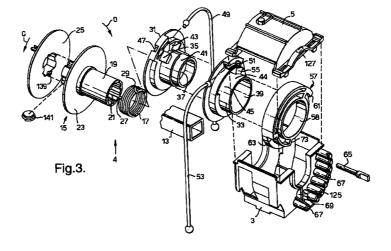
(11)

- Ponsen, Robert Jan
   3315 HJ Dordrecht (NL)
- (74) Representative:
  Smith, Samuel Leonard
  J.A. Kemp & Co.,
  14 South Square,
  Gray's Inn
  London WC1R 5LX (GB)

## (54) Operating mechanism for a venetian blind

(57) An operating mechanism is provided which can raise, lower and tilt slats of a venetian blind, particularly an outside blind mounted externally of a building, and which comprises: a support body for rotatably receiving a rotatable drive shaft; a releasable clutch mechanism having at least a first element mounted for rotation by the drive shaft and a second element releasably engaged with the first element for moving the slats between opposite first and second angular positions; means defining the first and second angular positions; arresting means on the support body adapted to coop-

erate with the second element for establishing the opposite first and second angular positions; a retractable stop engageable with the second element to arrest the second element in an intermediate position between the opposite first and second positions and a lost motion mechanism interposed between the drive shaft and the retractable stop for engaging the retractable stop with the second element only after a predetermined number of revolutions of the drive shaft.





EPO FORM 1503 03 82 (P04C01)

## **EUROPEAN SEARCH REPORT**

Application Number EP 00 30 3940

	DOCOMENTS CONSID	ERED TO BE RELEVAN	<u>'</u>	
Category	Citation of document with in of relevant passa	dication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
A	US 5 228 491 A (RUD 20 July 1993 (1993- * the whole documen	07-20)	1,12	E06B9/308 E06B9/307
A	US 4 522 244 A (BRO 11 June 1985 (1985- * the whole documen	06-11)	1,12	
A	WO 96 27727 A (MARO 12 September 1996 ( * the whole documen	1996-09-12)	1,12	
D,A	EP 0 190 626 A (HUN 13 August 1986 (198 * the whole documen	5-08-13)	1,12	
				TECHNICAL FIELDS
				SEARCHED (Int.CI.7)
	The present search report has be	en drawn up for all daims		
	Place of search	Date of completion of the search	j.	Examiner
	THE HAGUE	7 August 2000	FUR	DHAM, A
X : partic Y : partic docum A : techn O : non-v	TEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with anothe nent of the same category ological background written disclosure rediate document	E : earlier patent after the filing or D : document cite L : document cite	ed in the application differ other reasons	ned on, ar



Application Number

EP 00 30 3940

CLAIMS INCURRING FEES
The present European patent application comprised at the time of filing more than ten claims.
Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.
LACK OF UNITY OF INVENTION
The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:
see sheet B
All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:  1 - 10 , 12 - 19



# LACK OF UNITY OF INVENTION SHEET B

**Application Number** 

EP 00 30 3940

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-10, 12-19

An operating mechanism for raising, lowering and tilting the slats of a venetian blind; the operating mechanism comprising:

a support body, a realeasable clutch mechanism, means defining first and second angular end positions, a retractable stop and a lost motion mechanism,

the lost motion mechanism ensuring that tilting of the blind slats does not cause their unintentional raising.

## 2. Claim: 11

An adjustable tape winding core for a venetian blind comprising a pulley body with a spool, the spool having a screw thread in which is rotatably received an adjustment screw plug,

thus allowing the tape winding to be adjusted to accommodate differences in length of lifting tape.

#### ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 00 30 3940

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

07-08-2000

Patent document cited in search report		Publication date	Patent family member(s)		Publication date		
US	5228491	1 A 20-07-1993		AT 146252 T		15-12-199	
				AU	646182 B	10-02-19	
				AU	2394292 A	02-03-199	
				BR	9205363 A	16-11-19	
				CA	2092300 A,C	03-02-199	
				DE	69215844 D	23-01-19	
				DE	69215844 T	03-07-199	
				DK	551486 T	30-12-19	
				ΕP	0551486 A	21-07-19	
				ES	2095482 T	16-02-199	
				FI	931478 A,B,	01-04-19	
				HU	67323 A	28-03-199	
				JP	2609508 B	14-05-199	
				KR	9615120 B	28-10-19	
				MX	9301396 A	29-07-19	
				NO	303079 B	25-05-199	
				NZ	247069 A	26-05-199	
				WO	9303250 A	18-02-19	
US	4522244	Α	11-06-1985	EP	0097627 A	04-01-198	
	1022211	•	11 00 1700	NO.	831481 A	19-12-198	
				SE	8203812 A	19-12-198	
WO	9627727	A	12-09-1996	AU	4781096 A	23-09-199	
				CA	2213807 A	12-09-199	
				US	5628356 A	13-05-199	
ΕP	0190626	A	13-08-1986	DE	8503040 U	20-06-198	
				AT	48886 T	15-01-199	
		,		DE	3667692 D	25-01-199	
				DK	41686 A	06-08-198	

FORM P0459

© Tor more details about this annex : see Official Journal of the European Patent Office, No. 12/82