

U.S. PATENT NO. 7,579,802

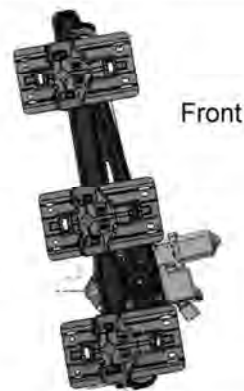
INDEPENDENT CLAIMS

U502

Ford U502

Front

- GM Lambda style regulator
- Single rail w/ two (2) pulleys
- Baseplate integrated to guide rail
- Open Cable system
- 80% Electronics (no S5)
- Motor/Electronics
Carry-over D385/471/472 & S197
- Uncoated Guide Rail (Greased)
- Over molded slider w/ down stop
- Lower bracket/baseplate
- Three (3) motor attachments to
Guide rail (no shoulder bolt)



During the deposition of 30(b)(6) representative David Brink, Mr. Brink stated that a window regulator, which is installed in a door, includes rails which provide a travel path along which the window travels. Please see Deposition Transcript of David Brink, Page 29, Lines 12-15 and page 66 lines 9-16:

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INDEPENDENT CLAIMS

U502

Page 29

1 down WLM, which I think is window lift motor North
 2 America. Does that sound right?
 3 A. Okay.
 4 Q. Is that yes?
 5 A. Yes.
 6 Q. Thanks. What -- strike that.
 7 What is window lift motor, as you just used
 8 the term?
 9 A. In Brose terminology, a window lift motor is an
 10 electric motor with a gear box assembly that attaches
 11 to a window lift mechanism.
 12 Q. What's a window regulator then?
 13 A. Again, in Brose terminology, a window regulator is a
 14 product, a mechatronics product that moves a piece of
 15 glass.
 16 Q. So, mechatronics is an interesting word. So, what does
 17 that mean exactly? I know what it means, but I need to
 18 know what it means for the record. So, go ahead.
 19 A. It's a hybrid word of course. It's mechanics and
 20 electronics married together in a system.
 21 Q. Does Brose manufacture window lift motors?
 22 A. Yes.
 23 Q. Does Brose manufacture window regulators?
 24 A. Yes.
 25 Q. Does Brose mate those two together and sell an assembly

Page 66

1 A. Some of the end items are considered door modules.
 2 Q. Let's break it down into two camps then. Is it either
 3 electronic window regulator? Is that the word you
 4 used?
 5 A. Yes.
 6 Q. Or door module? Are those two different product
 7 categories, I guess, for lack of a better term?
 8 A. Yes.
 9 Q. Just so the record is clear, when we talk about
 10 electronic window regulator, what exactly are we
 11 referring to?
 12 A. That would be the electronics, the window lift motor,
 13 the rails, pulleys, and cable assembly.
 14 Q. And then those three commonly are referred to as a
 15 window regulator?
 16 A. Yes.
 17 Q. For any of the platforms that are represented on page
 18 16 and 17, does any Brose entity also sell the glass
 19 along with the electronic window regulator?
 20 A. No.
 21 Q. Why is that?
 22 A. Brose never sells glass.
 23 Q. Do you know why that is?
 24 A. It is not part of our portfolio.
 25 Q. Does Brose have a relationship with some provider so

Bates Number BROSE-00373578 discloses that platform U502 includes a motor for the front doors. Specifically, platform U502 includes motor with part numbers 930956 and 930957:

Customer	Program	Brose Part Number	Motor Orientation	Torque (Nm)	Pins	Brushcard	BBD Zaus #	ASM Zaus #	Drawing
Ford	D258, U502	921483-102	REAR LH	8.70	2	Direct Connect	A96277-111	A98034-110	WBG
		921482-102	REAR RH				A99090-111	A98035-110	WBG
	U502	930956-103	FRONT LH	8.70	6	Plug-in Electronic	A99093-110	A95129-110	QUE
		930957-103	FRONT RH				A99094-110	A95129-110	QUE

During the deposition of 30(b)(6) representative David Brink, Mr. Brink stated that a motor is an electric motor that is attached to a window lift mechanism, such as the window regulator. Please see

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INDEPENDENT CLAIMS

U502


Deposition Transcript of David Brink, Page 29, Lines 9-11:

Page 29

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21 Q. Does Brose manufacture window lift motors?
22 A. Yes.
23 Q. Does Brose manufacture window regulators?
24 A. Yes.
25 Q. Does Brose mate those two together and sell an assembly

Bates Number BROSE-00266722 discloses that the electronics for platform U502 is the same as platform D385:

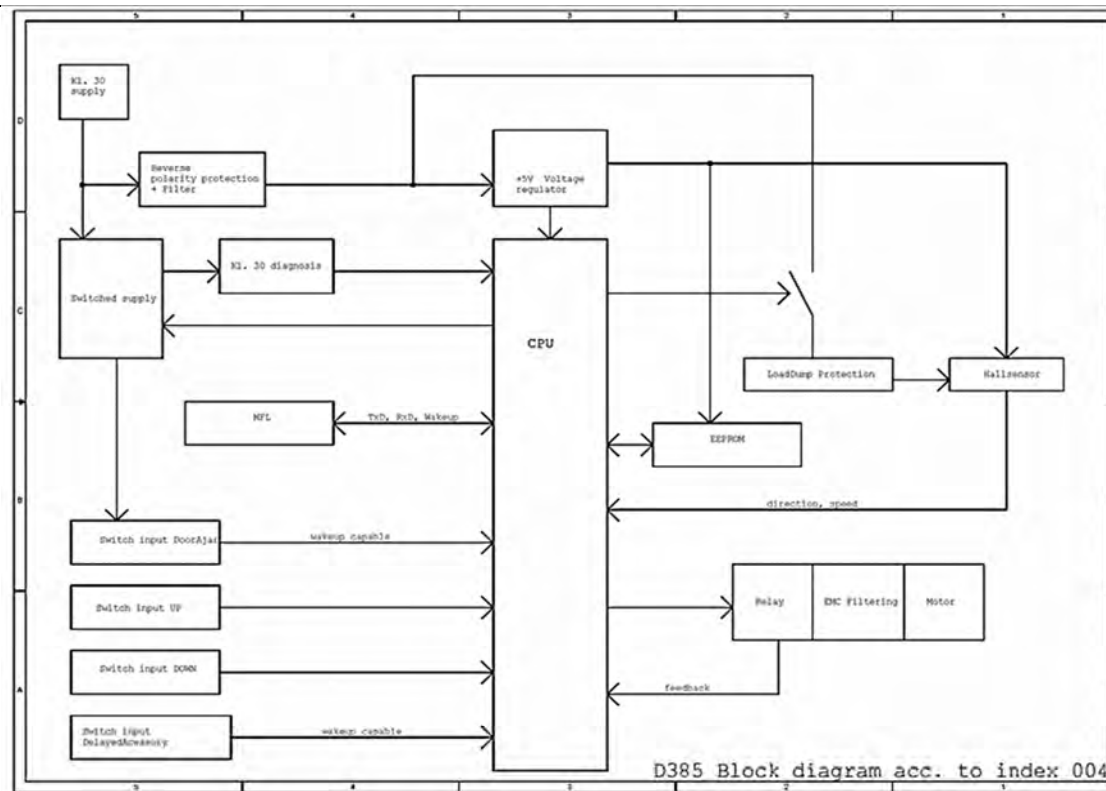
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INDEPENDENT CLAIMS	U502
	<ul style="list-style-type: none"> • The electronics concept is the same as for the current D385, Brose part number <ul style="list-style-type: none"> - 986468-106 • It uses a flash microcontroller • The software is common to the D385 <ul style="list-style-type: none"> - Software is loaded in the electronics manufacturing (2-3 weeks lead time to window regulator assembly) • When the window regulator assembly is complete, the window regulator is loaded with its parameter set or calibration. The calibration tunes the part to work in the U502 application • Electronics Functions for U502 <ul style="list-style-type: none"> - Manual and Express up/dn - Antitrap for all up motions - Security override with 250 N stall force limitation - Lower softstop, reducing the stop noise and regulator stress - Software Thermal Protection <div style="margin-top: 20px;"> <p>Major Components</p> <p>Relay: Taiko RTE2-160T</p> <p>Microcontroller: Freescale 32 kB</p> <p>Flash memory</p> </div> <div style="text-align: center; margin-top: 10px;">  </div> <p style="margin-top: 20px;">Bates Number BROSE-00193763 discloses that platform D385 includes a sensor for measuring a parameter of the motor coupled to the motor driven element. Specifically, platform D385 includes a hall sensor:</p>

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INDEPENDENT CLAIMS

U502



Bates Number BROSE-00191683 discloses a bill of material for platforms D385 and U502. The bill of material identifies a sensor with part number HAL730SF-K:

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