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SECTIONAL GATE

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SEKTIONALTOR

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PORTE EN PLUSIEURS PARTIES

Publication  
**EP 0897448 A1 19990224 (DE)**

Application  
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Abstract (en)  
[origin: US6105312A] PCT No. PCT/EP97/02242 Sec. 371 Date Mar. 26, 1999 Sec. 102(e) Date Mar. 26, 1999 PCT Filed May 2, 1997 PCT Pub. No. WO97/42387 PCT Pub. Date Nov. 13, 1997A sectional gate assembly to move a sectional gate between an open position and a closed position by an upper and lower closing element. The upper closing element is flexibly connected with the lower closing element, and both the upper and lower closing elements each have a first and a second opposite side and one or more guides which are arranged on each of the first and second opposite sides of the closing elements. The sectional gate assembly includes a first and a second single track guide rail. The first and second guide rails each have a vertical section and a horizontal section connected with a curved portion. One or more of the guides on the upper and lower closing elements are adapted to move within the guide rail. A weight-counterbalancer is included in the sectional gate assembly. The weight-counterbalancer has a traction mechanism which engages at a first end on one of the upper and/or lower said closing elements, and at a second end on an energy accumulator which allows the lower closing element to move into the horizontal section of the rail guides. The weight-counterbalancer also includes a deflection roller for the traction mechanism which is arranged beneath the horizontal section of the rail guides so that the weight-counterbalancer exerts, by way of the traction mechanism, a pulling force that acts generally horizontally on the lower closing element in the gate open position. The pulling force acts generally vertically on the lower closing element in the gate closed position. The sectional gate assembly further includes a mechanism to swivel an upper edge of the upper closing element out of alignment with the guide rails in the closed position. The mechanism includes a pivoting lever attached to the upper closing element and has an arrangement to drive the upper closing element from a first position in the gate open position into a second position in the gate closed position and back to the first position.

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