

Title (en)
BAR SCREEN DEVICE

Title (de)
SPALTSIEBVORRICHTUNG

Title (fr)
DISPOSITIF DE TAMIS A FENTE

Publication
EP 1507922 A1 20050223 (DE)

Application
EP 03722531 A 20030423

Priority
• DE 10218323 A 20020424
• EP 0304220 W 20030423

Abstract (en)
[origin: WO03091496A1] The invention relates to a bar screen device (1, 1', 1''), especially for treating fibrous suspensions in the paper industry. Said device comprises a plurality of bars (2, 2', 2'', 2''') which are fixed to at least one reinforcing element (3, 3', 3'', 3''') in such a way that they extend parallel at a pre-determined mutual distance which is defined by spacer elements (4*, 4'', 4''', 4'''), the mutual distance between the same defining the width of the slits in the bar screen device. The spacer elements (4*, 4'', 4''', 4''') are also embodied as connecting elements (4, 4', 4'', 4'''), especially in order to avoid notch-induced resistance variations, and fix the bars (2, 2', 2'', 2''') to the reinforcing elements (3, 3', 3'', 3''') in such a way that they are distanced, in all three dimensions, in a positively and force locking manner, from the base of the bars to as close as possible to the neutral fibres of the bars (2, 2'; 2'', 2''') impinged upon. In this way, the bars can be fixed to the reinforcing elements without welding, and the separated, spatially positively locking connections between the bars (2, 2', 2'', 2''') and the combined spacer and connecting elements (4*, 4'', 4''', 4'''), and between the combined spacer and connecting elements (4, 4', 4'', 4''') and the reinforcing elements (3, 3', 3'', 3'''), are largely free of any notch effect, such that the component resistance remains unlimited.

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D21D 5/16

IPC 8 full level
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