

Title (en)  
ROTARY CASING ROLL

Title (de)  
DREHMANTELZYLINDER

Title (fr)  
CYLINDRE A ENVELOPPE TOURNANTE

Publication  
**EP 1740326 A1 20070110 (FR)**

Application  
**EP 04742534 A 20040416**

Priority  
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Abstract (en)  
[origin: WO2005110635A1] A rotary casing milling roll with a tubular casing (1) rotatably mounted on a plurality of pads (3) retaining said casing (1), and generating a hydrodynamic bearing effect by injecting a lubricant between the bearing surface (31) of the pad (3) and the inner surface (13) of the casing (1). According to the invention, the bearing surface (31) of each pad is provided with three hydrostatic pockets, a central pocket (5) and an upstream (7) and downstream (6) side pocket respectively, which receive said fluid under a pressure sufficient to produce an additional fluid flow and localised pressure increase in the driven film (4) so as to expand, in an upstream and downstream direction, the hydrodynamic bearing angular sector (4) while maintaining, over the entire length thereof, the fluid flow required to obtain the desired bearing effect.

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**B21B 27/055** (2013.01 - EP US); **D21G 1/022** (2013.01 - EP US); **F16C 13/028** (2013.01 - EP US)

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See references of WO 2005110635A1

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