

Title (en)
Rubber baler with extended service life

Title (de)
Gummi-Ballenpresse mit erhöhter Lebensdauer

Title (fr)
Presse à balles en caoutchouc avec longévité prolongée

Publication
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Application
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Priority
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Abstract (en)
A improved service life baler press assembly including a number of novel press chamber and ram assembly components formed of a relatively hard material, such as a thermoplastic polymer (e.g., acetal resins) or any other suitable material having low static and dynamic coefficients of friction. Press chamber components according to the invention include press wall liners coupled to the press chamber walls. The press wall liners are manufactured of the thermoplastic polymer, and are disposed between the press walls and a ram head during period of compression. The low static and dynamic coefficients of friction of the thermoplastic polymer material allow the ram head to move inside of the press chamber without damaging the walls of the press chamber. In addition, one embodiment of the present invention includes a ram head cover also composed of a thermoplastic polymer or other suitable material. The ram head cover reduces wear damage to the press wall liners. The surface area of a traditional ram head can be reduced to accept the ram head cover. The interaction between the various press chamber components reduces the contamination of rubber (or any other compressible material) by preventing metal cuttings from being formed during extended use. The disclosed press wall liners also feature a unique interlocking configuration that prevents rubber from migrating through the junctions of the wall liners. <IMAGE>

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• [XY] US 4936206 A 19900626 - MILES THOMAS R [US], et al
• [Y] US 3937355 A 19760210 - ENGEBRETSEN EINAR O
• [XA] DE 2939205 A1 19810416 - AUGSBURGER TEXTILMASCHF [DE]
• [A] US 3613568 A 19711019 - BOTTAS MICHAEL J, et al
• [A] DE 2949712 A1 19810619 - SEIDNER NORBERT
• [A] US 5461975 A 19951031 - DRIGGS LELAND W [US]
• [A] GB 2169846 A 19860723 - KUMPULAN GUTHRIE SDN BHD

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