

Title (en)
CAN BODY MAKING APPARATUS

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Application
EP 90905305 A 19900226

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• US 31548889 A 19890227
• US 39244689 A 19890811

Abstract (en)
[origin: WO9009851A1] A redraw apparatus (16) is provided for a can body making apparatus wherein the redraw carriage (40) of the redraw apparatus (16) is mounted for substantially friction-free sliding reciprocating movement over a pair of spaced apart support posts (70, 72) which are fixedly mounted on the housing (18) holding the can forming and ironing dies. Also, a counterbalancing system (110) is provided for applying a force to counterbalance the weight of a portion of structures used to reciprocate the redraw carriage (40). Additionally, a ram assembly (150) is provided for supporting a ram (262) for movement through the redraw apparatus (16) and the can forming and ironing dies wherein a pair of spaced apart elongated shafts (154, 156) are fixedly mounted and a ram carriage (170) having the ram (262) attached thereto is provided with liquid bearings (180, 182) using liquid coolant comprising water having solubles contained therein for mounting the ram carriage (170) on the elongated shafts (154, 156) for substantially friction free movement thereover. A guide liquid bearing (272) is also used to ensure proper alignment of the ram (262). Also disclosed is a reciprocating ram (1014) which is supported solely by a liquid bearing (1030) wherein the liquid bearing (1030) using liquid coolant comprising water having solubles contained therein has a sufficient length to ensure the proper alignment of the leading portion (1020) of the elongated ram (1014) as it engages a can blank in a redraw assembly (1010) and moves it through the forming and ironing dies to form an elongated can body.

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CPC (source: EP)
B21D 22/21 (2013.01); **B21D 22/30** (2013.01)

Citation (search report)
• [X] EP 0297596 A2 19890104 - COORS CO ADOLPH [US]
• [A] US 4506935 A 19850326 - SUZUKI HIROSHI [JP], et al
• [A] GB 1373681 A 19741113 - REYNOLDS METALS CO
• See references of WO 9009851A1

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