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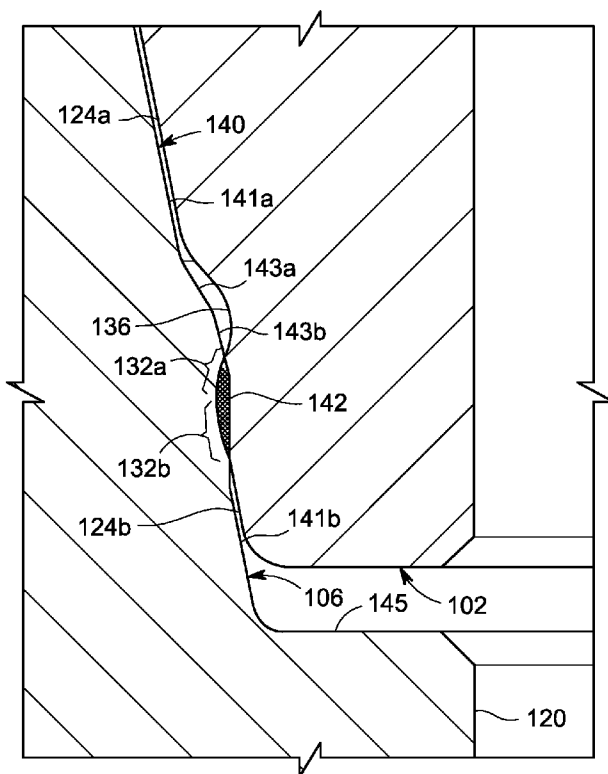
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(54) Title: PROTECTED INTEGRAL METAL TO METAL SEAL



(57) Abstract: A pipe connection includes a tubular box having an internal threaded section extending from a rim, and a nose receptacle area joining the threaded section. A box seal surface is formed on the nose receptacle area. A tubular pin has a nose area extending from a pin end, and an external threaded section joining the nose area, the external threaded section mating with the internal threaded section. An annular groove (136) is formed on the nose area between the pin end and the external threaded section. A pin seal surface (132) is located at least partially in the groove for engaging the box seal surface to form a metal to metal sealing engagement.



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