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**Adamek**

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(54) **METAL SEALING ADJUSTABLE CASING**  
**SUB**

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(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

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(65) **Prior Publication Data**

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**Related U.S. Application Data**

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(51) **Int. Cl.**  
**E21B 33/02** (2006.01)

(52) **U.S. Cl.**  
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(58) **Field of Classification Search**  
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See application file for complete search history.

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(57) **ABSTRACT**

An adjustable casing sub having an outer housing, an inner housing insertable into the outer housing, and a ratcheting system for coupling the inner housing within the outer housing. An annulus is between a portion of the inner and outer housing, the annulus including an inwardly tapered section. A metal faced seal is disposed in the annulus, wherein the metal faced seal includes a sliding surface and a compressive sealing surface. The sliding surface may include a malleable inlay and the compressive sealing surface may include a spring like element. Moreover, the metal faced seal radial thickness is greater than the inwardly tapered section radial thickness.

**6 Claims, 3 Drawing Sheets**

