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Trussell

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(54) **WELDING ASSISTANCE SYSTEMS**

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B23K 9/025 (2006.01)
B23K 9/028 (2006.01)

(52) **U.S. Cl.**
CPC ***B23K 9/0253*** (2013.01); ***B23K 9/0286*** (2013.01)

(58) **Field of Classification Search**
CPC ... B23K 9/0253; B23K 9/0282; B23K 9/0286
USPC ..... 219/60 R; 228/49.3
See application file for complete search history.

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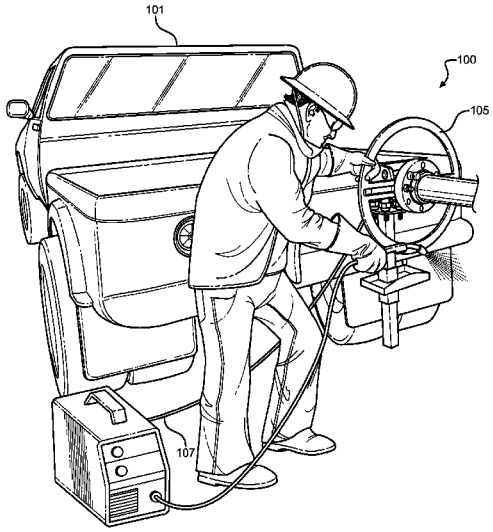
(57) **ABSTRACT**

Welding assistance systems to rotate a piping system component for welding purposes. The welding assistance systems hereof permit pivoting of the item to be welded, leveling of the item to be welded, and electrical conduction prevention to protect items connected with the welding assistance system hereof.

18 Claims, 12 Drawing Sheets