US009410219B2

(12) **United States Patent**
Yoon et al.

(10) **Patent No.: US 9,410,219 B2**
(45) **Date of Patent: Aug. 9, 2016**

(54) **HEAT TREATMENT DEVICE FOR CRANK SHAFT**

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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 295 days.

(21) Appl. No.: **14/135,267**

(22) Filed: **Dec. 19, 2013**

(65) **Prior Publication Data**

US 2014/0183174 A1 Jul. 3, 2014

(30) **Foreign Application Priority Data**

Dec. 28, 2012 (KR) 10-2012-0157515

(51) **Int. Cl.**

B23K 26/02	(2014.01)
C21D 1/09	(2006.01)
C21D 9/30	(2006.01)
B23K 26/06	(2014.01)

(52) **U.S. Cl.**

CPC .. ***C21D 1/09*** (2013.01); ***C21D 9/30*** (2013.01); *B23K 26/06* (2013.01); *B23K 2201/005* (2013.01)

(58) **Field of Classification Search**

CPC B23K 2201/005; B23K 26/0066; B23K 26/06–26/0617; B23K 26/0823; C21D 1/09; C21D 2221/00; C21D 2221/10; C21D 9/30; Y10T 74/2173

USPC 219/121.6–121.83

See application file for complete search history.

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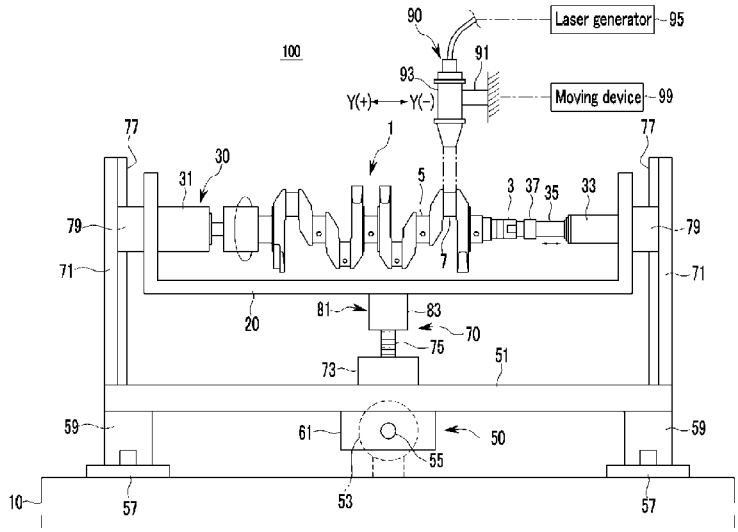
(57) **ABSTRACT**

A crankshaft heat treatment device may include a base frame, a jig frame in which a crankshaft is rotatably supported and that is disposed to be able to move in a horizontal direction and in a vertical direction at the base frame, and a laser unit that is disposed in a predetermined fixed position and irradiates laser beam to a pin portion and a journal portion of the crankshaft so as to treat the pin portion and the journal portion with heat.

14 Claims, 3 Drawing Sheets