



US 20240237159A9

(19) **United States**  
(12) **Patent Application Publication**  
**SADLER et al.**

(10) **Pub. No.: US 2024/0237159 A9**  
(48) **Pub. Date: Jul. 11, 2024**  
**CORRECTED PUBLICATION**

(54) **SYSTEMS AND METHODS FOR MAGNETIC HEAT INDUCTION AND EXCHANGE TO MOBILE STREAMS OF MATTER**

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(21) Appl. No.: **18/278,223**

(22) PCT Filed: **Feb. 22, 2022**

(86) PCT No.: **PCT/US2022/017316**

§ 371 (c)(1),

(2) Date: **Aug. 22, 2023**

**Prior Publication Data**

(15) Correction of US 2024/0138035 A1 Apr. 25, 2024  
See (86) PCT No.

(65) US 2024/0138035 A1 Apr. 25, 2024

**Related U.S. Application Data**

(60) Provisional application No. 63/152,145, filed on Feb. 22, 2021.

**Publication Classification**

(51) **Int. Cl.**

**H05B 6/10** (2006.01)

**H05B 6/04** (2006.01)

**H05B 6/06** (2006.01)

**H05B 6/40** (2006.01)

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

CPC ..... **H05B 6/108** (2013.01); **H05B 6/04**

(2013.01); **H05B 6/06** (2013.01); **H05B 6/40**

(2013.01)

(57)

**ABSTRACT**

The disclosure describes a magnetic induction heating system for viscous and thermally sensitive process streams. The magnetic induction system provides an industrial heating alternative to steam by providing gentle and uniform heating with a high degree of temperature uniformity and stability. The magnetic induction heating system for viscous and thermally sensitive process streams generally includes an induction system that provides gentle heating through a combination of coil design, coupled with a high efficiency heat exchange element capable of gentle heating and through electronic control is such a way unprecedented stability, safety, uniformity, compactness, energy control, and efficiency are achieved.

