



(12) **United States Patent**
Loret de Mola

(10) **Patent No.:** **US 8,789,858 B2**
(45) **Date of Patent:** **Jul. 29, 2014**

(54) **TWO ASSEMBLY PARTS LATCH SYSTEM**

(75) Inventor: **Manuel Loret de Mola, Jupiter, FL (US)**

(73) Assignees: **The Young Engineers, Inc., Lake Forest, CA (US); Manuel Loret de Mola, Stuart, FL (US)**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 302 days.

(21) Appl. No.: **13/325,633**

(22) Filed: **Dec. 14, 2011**

(65) **Prior Publication Data**

US 2012/0080890 A1 Apr. 5, 2012

Related U.S. Application Data

(63) Continuation-in-part of application No. 12/384,064, filed on Mar. 31, 2009.

(30) **Foreign Application Priority Data**

Mar. 16, 2010 (EP) 10250487

(51) **Int. Cl.**

- E05C 1/12** (2006.01)
- E05B 5/00** (2006.01)
- E05C 9/04** (2006.01)
- E05C 1/14** (2006.01)
- E05C 1/08** (2006.01)
- E05B 63/00** (2006.01)

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

CPC . E05B 5/00 (2013.01); **E05C 9/046** (2013.01);
E05C 1/14 (2013.01); **E05C 1/12** (2013.01);
E05B 63/0056 (2013.01); **E05C 1/085**
(2013.01)

USPC **292/164**

(58) **Field of Classification Search**

CPC **E05C 1/04; E05B 17/0025**

USPC 292/137, 140, 164, 169, 170, DIG. 29,
292/DIG. 37, 23, 251.5; 70/81, 192, 208,
70/149, 207, 216, 221-224, 489, DIG. 32
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 57,423 A * 8/1866 Wood 292/170
- 107,773 A * 9/1870 Greenwood 292/23
- 122,061 A 12/1871 Robie
- 161,705 A 4/1875 Robinson

(Continued)

FOREIGN PATENT DOCUMENTS

- EP 0802345 A2 10/1997
- JP 04038384 A 2/1992

Primary Examiner — Kristina Fulton

Assistant Examiner — Nathan Cumar

(74) *Attorney, Agent, or Firm* — Joseph E. Mueth, Esq.

(57) **ABSTRACT**

A bolt mechanism comprising a backing plate adapted to be mounted on a flat panel, a bolt assembly housing carried by the backing plate, a sliding bolt assembly carried on the bolt assembly housing one end of which can engage and latch to a striker, and a spring on the housing for keeping the end of the bolt extending out of the bolt assembly housing.

An actuator housing assembly comprising a housing having an opening therein, a movable actuator member received in the opening, the actuator member having a front surface and a rear surface and being digitally movable in the opening, and a hammer extending from the rear surface of the movable actuator member.

The actuator housing assembly is adapted to enable the attachment to and detachment from the bolt mechanism assembly.

2 Claims, 33 Drawing Sheets

