



US009410329B2

(12) **United States Patent**
Keersmaekers

(10) **Patent No.:** **US 9,410,329 B2**

(45) **Date of Patent:** **Aug. 9, 2016**

(54) **LIFT UNIT FOR ASCENDING AND DESCENDING A SCAFFOLD**

E04G 5/007; E04G 3/28; E04G 3/305; B66F 11/042

See application file for complete search history.

(76) Inventor: **Marc Keersmaekers**, Dessel (BE)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 240 days.

(56) **References Cited**

U.S. PATENT DOCUMENTS

548,752	A *	10/1895	Gentry	187/270
849,222	A *	4/1907	Flemming	182/62.5
2,948,363	A *	8/1960	Hopfeld	182/141
2,959,244	A *	11/1960	Fedde	182/69.5
3,664,459	A *	5/1972	Stephens et al.	182/141
3,889,778	A *	6/1975	Dotts	182/17
4,294,332	A *	10/1981	Ready	182/141
4,468,904	A *	9/1984	O'Malley	52/111
4,809,814	A	3/1989	St-Germain	
4,967,733	A *	11/1990	Rousseau	182/13

(Continued)

FOREIGN PATENT DOCUMENTS

GB	2425563	11/2006
GB	2461782	1/2010
WO	WO 9850301	11/1998

Primary Examiner — Colleen M Chavchavadze

(74) *Attorney, Agent, or Firm* — Marcus C. Dawes; Daniel L. Dawes

(21) Appl. No.: **13/810,435**

(22) PCT Filed: **Jul. 15, 2011**

(86) PCT No.: **PCT/BE2011/000047**

§ 371 (c)(1),
(2), (4) Date: **Jan. 15, 2013**

(87) PCT Pub. No.: **WO2012/006693**

PCT Pub. Date: **Jan. 19, 2012**

(65) **Prior Publication Data**

US 2013/0112500 A1 May 9, 2013

(30) **Foreign Application Priority Data**

Jul. 16, 2010 (BE) 2010/0443
 May 6, 2011 (BE) 2011/0279
 May 6, 2011 (WO) PCT/BE2011/000012

(51) **Int. Cl.**
E04G 1/22 (2006.01)
B66B 9/02 (2006.01)
B66B 9/187 (2006.01)
E04G 1/20 (2006.01)
E04G 1/24 (2006.01)
E04G 1/18 (2006.01)

(52) **U.S. Cl.**
 CPC ... **E04G 1/22** (2013.01); **B66B 9/02** (2013.01);
B66B 9/187 (2013.01); **E04G 1/18** (2013.01);
E04G 1/20 (2013.01); **E04G 1/24** (2013.01)

(58) **Field of Classification Search**
 CPC E04G 1/15; E04G 1/22; E04G 1/362;

(57) **ABSTRACT**

Described is a lift unit for ascending and descending in a shaft formed by a scaffold column of a scaffold, the scaffold column comprising at least one scaffold section, each scaffold section being defined by uprights and ledgers, comprising a first part adapted to be fixed at different heights to the scaffold by means of a first set of fixing means; a second part adapted so that it can be fixed at different heights to the scaffold by means of a second set of fixing means; a distance control means adapted to drive a variation in the distance between the first set of fixing means and the second set of fixing means; and methods for use of the lift unit.

13 Claims, 26 Drawing Sheets

