



US00D792190S

(12) **United States Design Patent**  
Lewis et al.(10) **Patent No.:** US D792,190 S  
(45) **Date of Patent:** \*\* Jul. 18, 2017(54) **HINGE KNUCKLE FOR FOLDING DOOR ASSEMBLY**(71) Applicant: **Woodfold Mfg., Inc.**, Forest Grove, OR (US)(72) Inventors: **Mark F. Lewis**, Portland, OR (US); **Rick Scott Alvarado**, Gaston, OR (US)(73) Assignee: **WOODFOLD MFG., INC.**, Forest Grove, OR (US)(\*\*) Term: **15 Years**(21) Appl. No.: **29/568,458**(22) Filed: **Jun. 17, 2016****Related U.S. Application Data**

(63) Continuation-in-part of application No. 15/171,478, filed on Jun. 2, 2016.

(51) **LOC (10) Cl.** ..... **08-06**(52) **U.S. Cl.**USPC ..... **D8/323**(58) **Field of Classification Search**USPC ..... D8/323–329, 354, 356; D23/303  
CPC .... E05D 1/00; E05D 3/00; E05D 5/00; E05D 7/00; B29C 31/00; E05Y 2201/00; F16C 1/00; F16C 3/00; F16C 9/00

See application file for complete search history.

(56) **References Cited**

## U.S. PATENT DOCUMENTS

1,463,346 A	7/1923	Walker
3,131,753 A	5/1964	Dixon
3,901,302 A	8/1975	Dagenais
3,913,171 A	10/1975	Reid
4,222,428 A	9/1980	Scherer
4,387,760 A	6/1983	Greschbach
4,922,987 A	5/1990	Marontate

5,150,501 A	9/1992	Pasternak
5,472,037 A	12/1995	Hoffman
D370,839 S	*	Harris .....
5,549,148 A	8/1996	Figueiredo et al.
D402,536 S	*	Cousins .....
D411,434 S	*	Russell .....
6,669,272 B2	12/2003	Ayabe et al.
D496,248 S	*	Liebendorfer .....
D520,862 S	*	Munson .....
7,290,581 B2	11/2007	Lee
D562,108 S	*	Pester .....
8,191,603 B1	6/2012	Motosko

(Continued)

## OTHER PUBLICATIONS

Lewis et al., "Reinforced Folding Door and Hinge Assembly", U.S. Appl. No. 62/235,455, filed Sep. 30, 2015.

(Continued)

*Primary Examiner* — John Windmuller*Assistant Examiner* — Benjamin Weeks(74) *Attorney, Agent, or Firm* — Stoel Rives LLP(57) **CLAIM**

The ornamental design for a hinge knuckle for folding door assembly, as shown and described.

**DESCRIPTION**

FIG. 1 is an isometric view of a front portion of a hinge knuckle for folding door assembly showing the new design;

FIG. 2 is a front elevation view thereof;

FIG. 3 is a rear elevation view thereof;

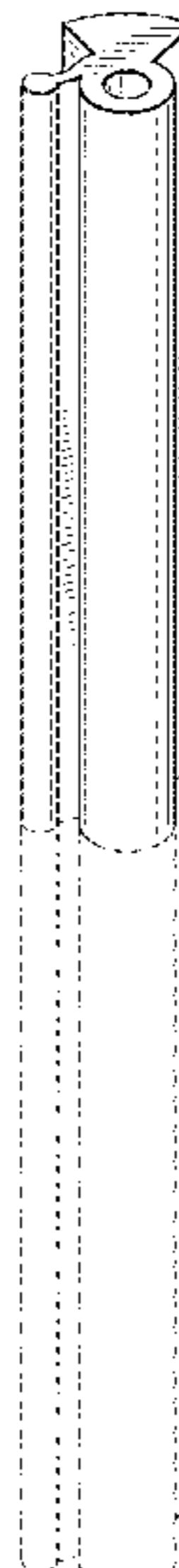
FIG. 4 is a right side elevation view thereof;

FIG. 5 is a left side elevation view thereof;

FIG. 6 is a top plan view thereof; and,

FIG. 7 is a bottom plan view thereof.

The broken lines in the figures represent portions of the hinge knuckle for folding door assembly that form no part of the claimed design.

**1 Claim, 2 Drawing Sheets**

(56)

**References Cited**

U.S. PATENT DOCUMENTS

- D680,419 S \* 4/2013 Green ..... B07B 1/15  
D8/349
- 8,960,257 B2 2/2015 Goodman
- D729,605 S \* 5/2015 Ramey ..... D8/323
- D731,296 S \* 6/2015 Nelson ..... D8/356
- D732,703 S \* 6/2015 Kreutzman ..... D25/122
- 2005/0063058 A1\* 3/2005 Langley ..... G02B 21/0012  
359/510
- 2011/0155145 A1\* 6/2011 Chua ..... A61B 19/081  
128/849
- 2012/0124776 A1 5/2012 McDonnell
- 2014/0367056 A1 12/2014 Miller

OTHER PUBLICATIONS

Lewis et al., "Reinforced Folding Door and Hinge Assembly", U.S.  
Appl. No. 15/171,478, filed Jun. 2, 2016.  
Office Action from Lewis et al. U.S. Appl. No. 15/171,478, dated  
Apr. 6, 2017, 8 pages.

\* cited by examiner

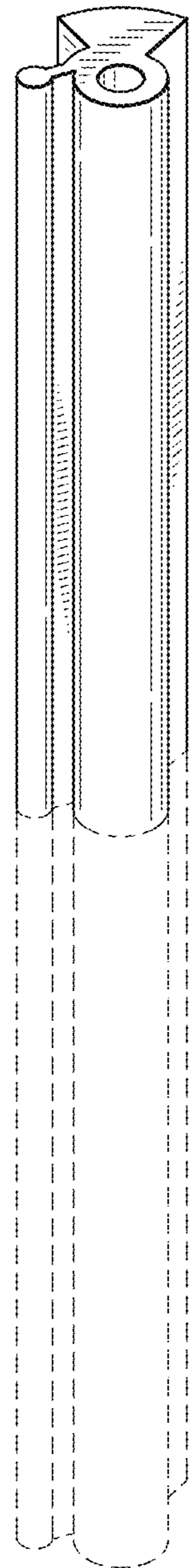


FIG. 1

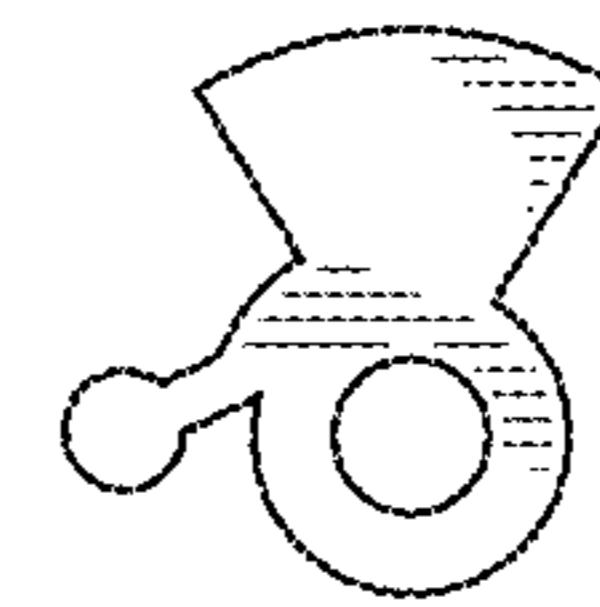


FIG. 6

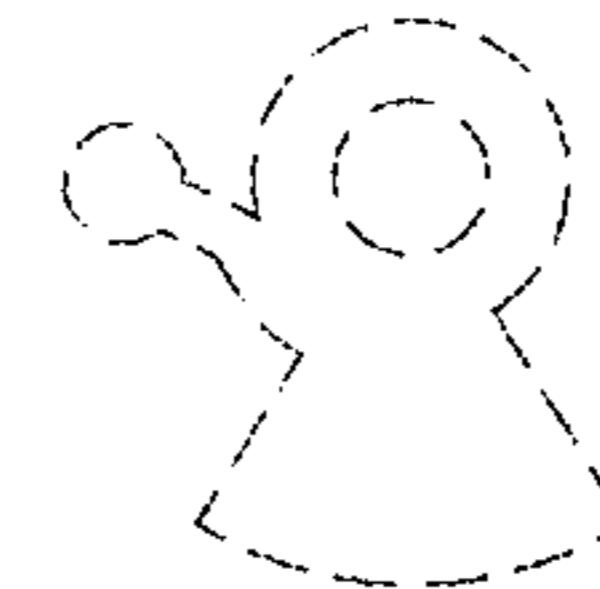
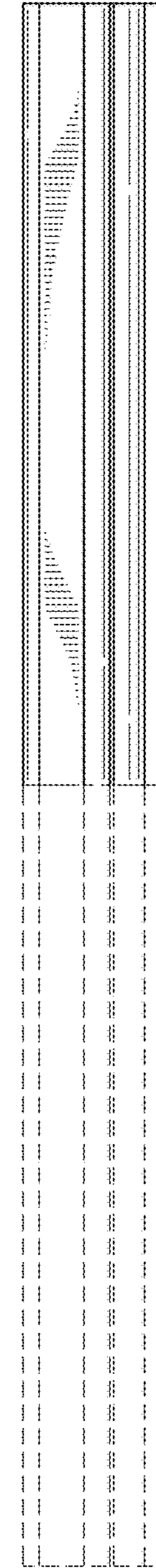
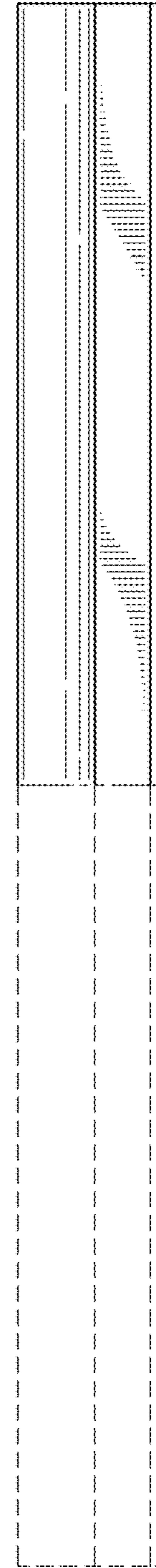
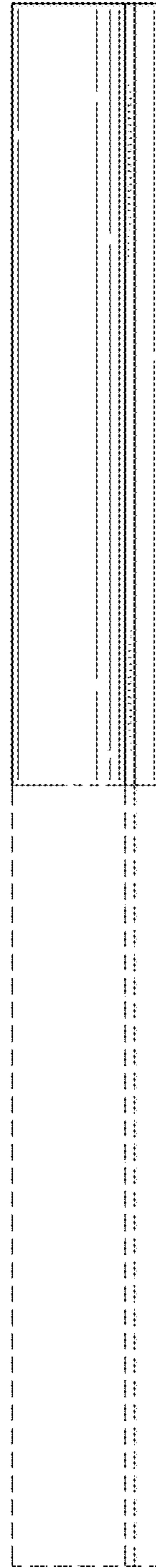
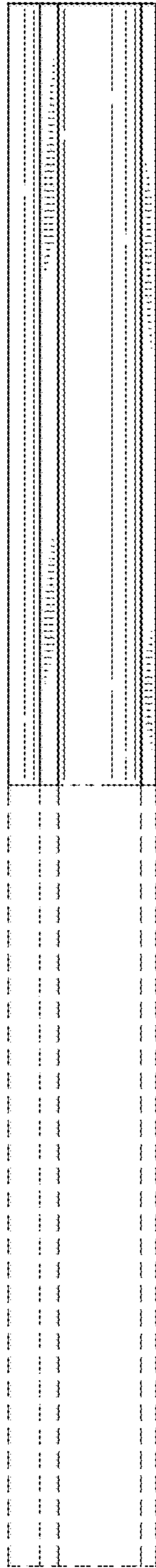


FIG. 7



*Fig. 2*

*Fig. 3*

*Fig. 4*

*Fig. 5*