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Baranski

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(54) **RETRACTABLE STORAGE SYSTEM**

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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 0 days.

Documentation regarding "Rev-A-Shelf 5pd-24cm Pull Down Shelving System" obtained from <http://www.homewarehq.com/rev-a-shelf-pull-down-shelving-system-5pd-24cm.aspx> on Oct. 26, 2015, believed to be available at least as early as Sep. 18, 2014.

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

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(58) **Field of Classification Search**

CPC *A47B 46/00*; *A47B 46/006*; *A47B 51/00*; *A47B 2051/005*

See application file for complete search history.

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(57) **ABSTRACT**

A pull-out and drop-down storage system maximizing storage space and providing a user with convenient access to otherwise difficult to access storage space. The storage system may comprise a stationary support structure, a moveable section, and a guide rail linked to the top of the moveable section by a connector to direct the motion of the moveable section between a retracted position and a more accessible position. The guide rail may be configured to lead the movable section through a confined space during deployment and retraction. The storage system may include vertical guide rails extending vertically from the bottom to the top of the rear part of the movable section and a sliding carriage assembly attached to the stationary support structure that in concert with the vertical guide rails provide stability and control during a substantially vertical motion of the movable section. The storage system may include a pair of wheels attached to the movable section and horizontal guide rails that extend horizontally at the base of the stationary support structure from the rear to the front of the stationary support structure to assist in the motion of the movable section. In some embodiments, travel of the movable section may be defined by a full-extension horizontal slide mounted to the movable section and traveling along vertical rail guides when the movable section is extended outside an enclosing frame.

19 Claims, 12 Drawing Sheets

