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Description of the process invention

ABSTRACT: "SWING" STORAGE BED

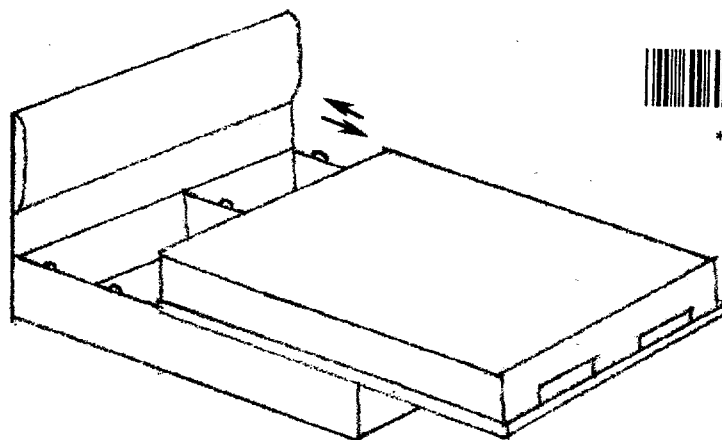
A storage bed system that slides open, eliminating user's hassle in using the storage bed device and space.



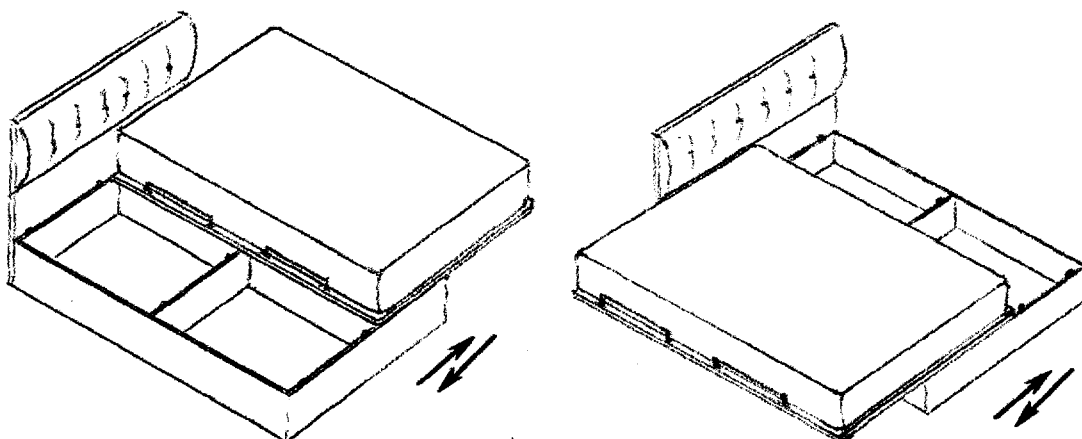
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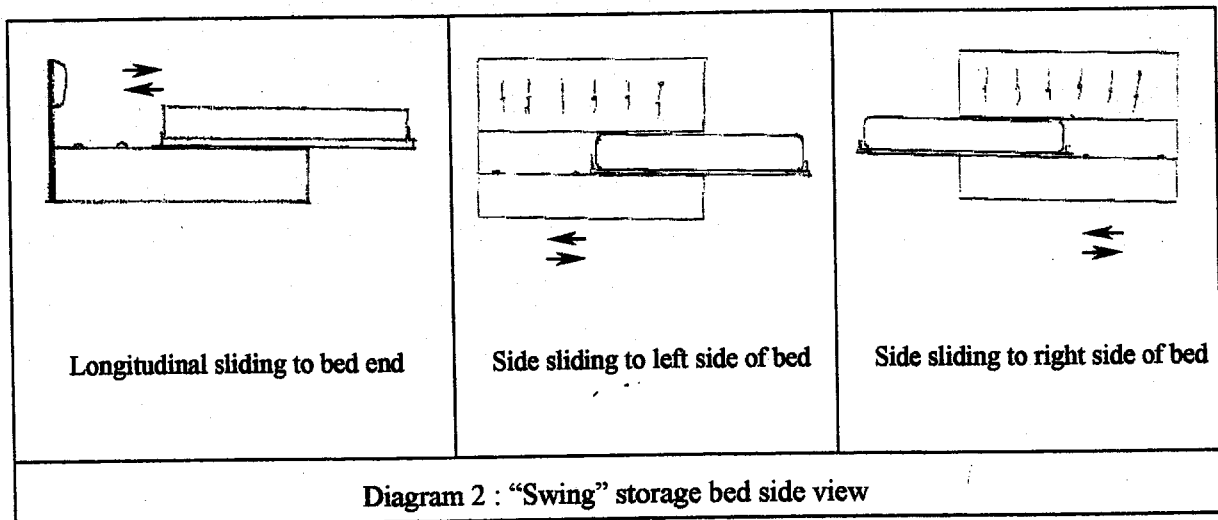


Slide Method 1: Slide longitudinally



Slide Method 2: Slide sideways, left and right

Diagram 1: "Swing" Storage Bed



Background

Swing storage bed's invention was sparked by the idea to create maximum storage space in today's limited living area.

We found that in a bedroom, the bed takes up most space. Hence, we see today, many interior designers seek to utilise the same floor area used by the bed. **Swing** storage bed seeks to provide users maximum storage and minimum hassle in using the space. The bed actually slides open to the compartment beneath, with the mattress on top and intact.

Currently, there are 2 main ways in storage bed's methodology:

- i) *Beds with drawers beneath*
Such method provides limited storage space, and limits the storage capacity in areas of storage area and storage weight.
- ii) *Beds that utilise pneumatic pumps to lift up the mattress*
Such method provides more storage space. The limitations are that the users require more strength in pushing up and down the mattress, and that the bedding amenities tend to be messed up in the process. Another important limitation is the safety aspect. Pneumatic pumps may become faulty and fails to perform its function.

The "**Swing**" system, by sliding the mattress sideways (see Appendix II), enables the user to use the storage space easily, and overcome the limitations of the two commonly used methods as highlighted above. The "**Swing**" system is thus a breakthrough in storage bed system and opens up more storage possibilities.

Compared to the first drawer method, **Swing** storage bed provides more space and accommodates more weight. Compared to the second pneumatic pump method, **Swing** system enhances safety, and the user uses comparatively less strength in opening up the storage area. The user also saves time in making a messed up bed in the pneumatic opening/closing process.

Embodiment

We are seeking to patent the sliding idea used by the Swing storage bed. The specific hardware used is not included. We seek to patent the idea, i.e. storage bed may adopt the SLIDING methodology in production.

The Claim

We hope to be conferred with the exclusive right to the **Swing** storage bed idea's industrial application. Whether or not a bed is classified as "Storage bed", no other designer, manufacturer, corporate or individual shall use the **Swing** storage bed's sliding methodology in the same manner as prescribed in diagram 1 and 2 above.

Conclusion

We wish to highlight that sliding methodology in furniture making is not a new idea. Such application is commonly found in making doors and wardrobes.

We have come up with the idea that the sliding methodology can be used on beds, and that the technical difficulties can be overcome. The **Swing** storage bed can thus be commercially manufactured successfully.

Hence, we hope that the patent can be granted to our idea so as to protect our invention, and let us recover our huge research expenses incurred on this project.
