ε1.3 Patent Summary Sheet

Instructions

In your engineering notebook or on this form, document each patent you find related to the major project problem you have identified. Your instructor may want you to print or partially print the related patent.

Source (APA format): Koenraad KUIJPERS, D. J. B., & KOOP, M. G.-W. (2018, March 30). Sorting device.

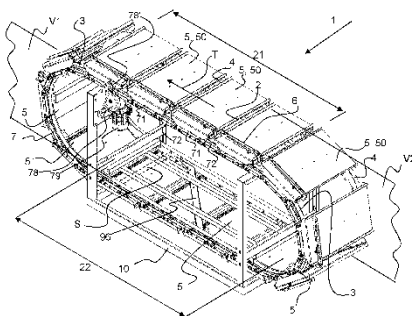## Patent Number: US9919879B2

Patent Summary:

They put a bunch of boxes on a conveyor belt with a back and forth drive mechanism and a mechanism on each box that can push it to the side off of the conveyor belt.

Patent Critique:

This design depends on a multitude of factors, such as a system that will load the trays and a way to get them off of the line before the belt turns upside down. It also doesn't put the contains in a separate container, just pushes the existing tray into a different location. We would also need an identifying system with a sensor that isn't just based on weight.

Images/sketches:

Attach images or sketches related to the patent that help describe the solution.

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Source (APA format): Stronkhorst, W. D., & de Bruijn, J. J. A. (2022, July 5). Sorting device and method.

Patent Number: US11376637B2

Patent Summary:

It is a conveyor belt system like the one described above, but it also has a scanner along the path that with check the contents of the box and assign it a label.

Patent Critique:

It will sort and label objects that have already been placed correctly in the trays, but what we need is something that can put the objects in the correct trays in the first place. The scanner setup also seems really overkill for our purposes.

Images/sketches:

Attach images or sketches related to the patent that help describe the solution.

Fig. 1