

ABSTRACT**LONG PRODUCT SORTING SYSTEM**

The present invention is a long product sorting system featuring a measuring table, a conveyor, and multiple bins. The measuring table receives variable length long products to be sorted and directs such product one by one to its measuring unit where an array of measuring sensors is mounted for determining the length of each product. Once the length of a product is detected, it is ejected by a array of pushers located underneath the array of sensors onto a conveyor for either transferring to secondary bins or immediate transfer to a primary bin. Each of the bins has a support beam and multiple support pillars disposed orthogonally across the support beam. Each bin has a retractable lever serving not only as a cover for the bin if the sorted product is not designated for that bin but also as a trap for capturing a sorted product when it is designated for that bin.

Fig. 6