ABSTRACT OF THE DISCLOSURE

SYSTEM AND METHOD OF DEMAND AND CAPACITY MANAGEMENT

A new business model of supply chain management for IC foundry and a system and method of demand and capacity management with machine-time accuracy are provided. The system includes an allocation planning module, an order management module, a capacity model, and a capacity management module. The allocation planning module receives a demand plan for a product. The capacity management module transforms the demand plan into a machine-time-based plan according to the capacity model, and reserves capacity according to the machine-time-based plan for the demand plan. The capacity management module further transforms a purchase order received by the order management module before a cutoff date for the product into a machine-time-based order, accepts the machine-time-based order and decreases the reservation capacity depending on the machine-time-based plan.

(FIG. 1)