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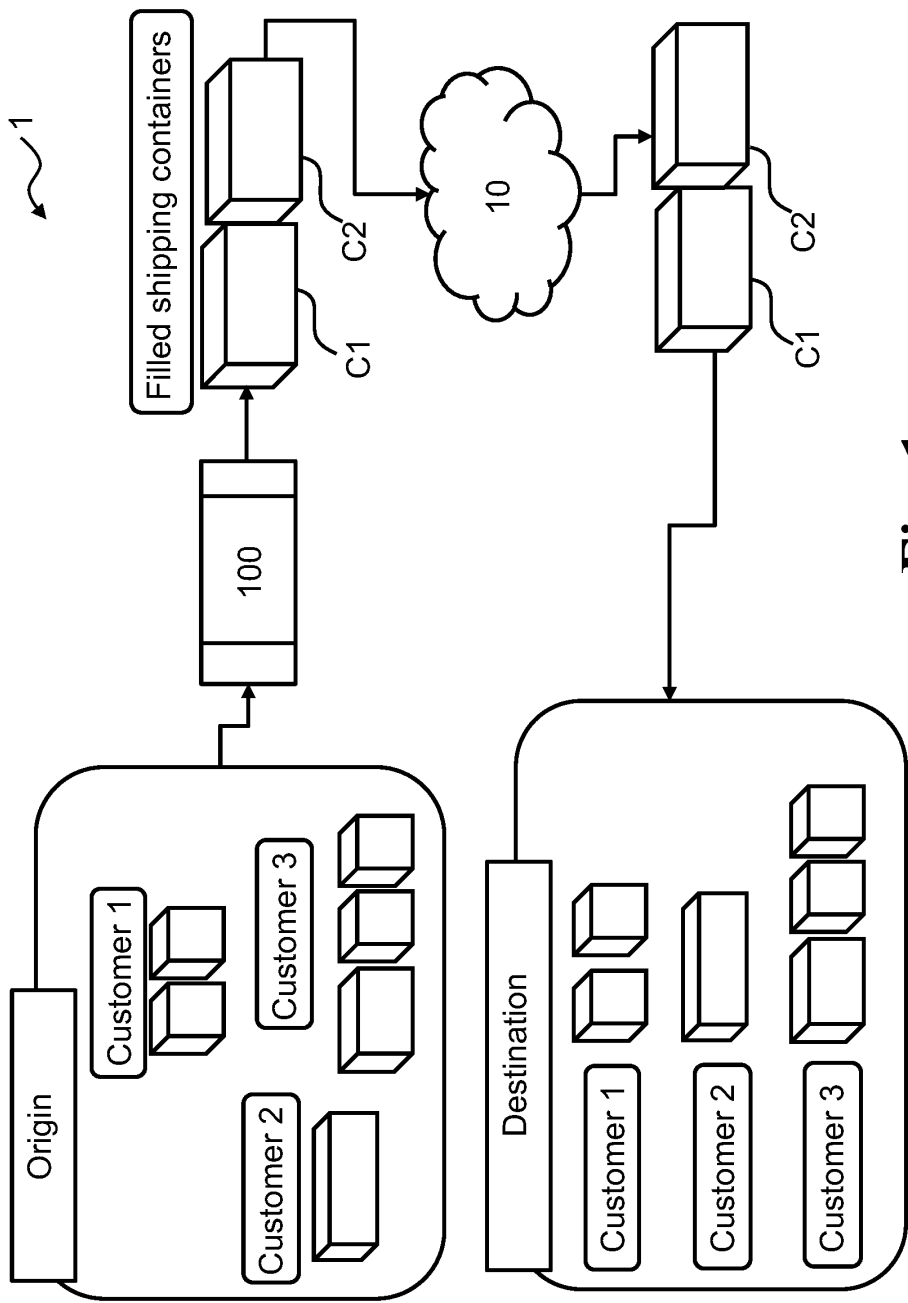
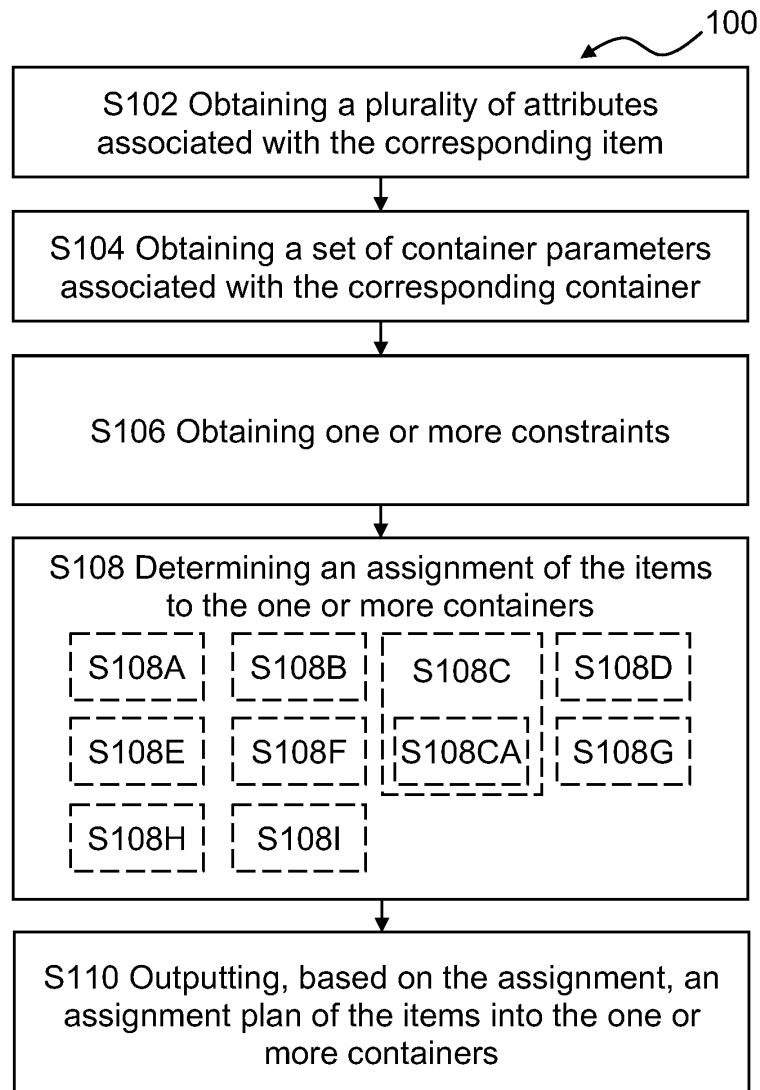


Fig. 1

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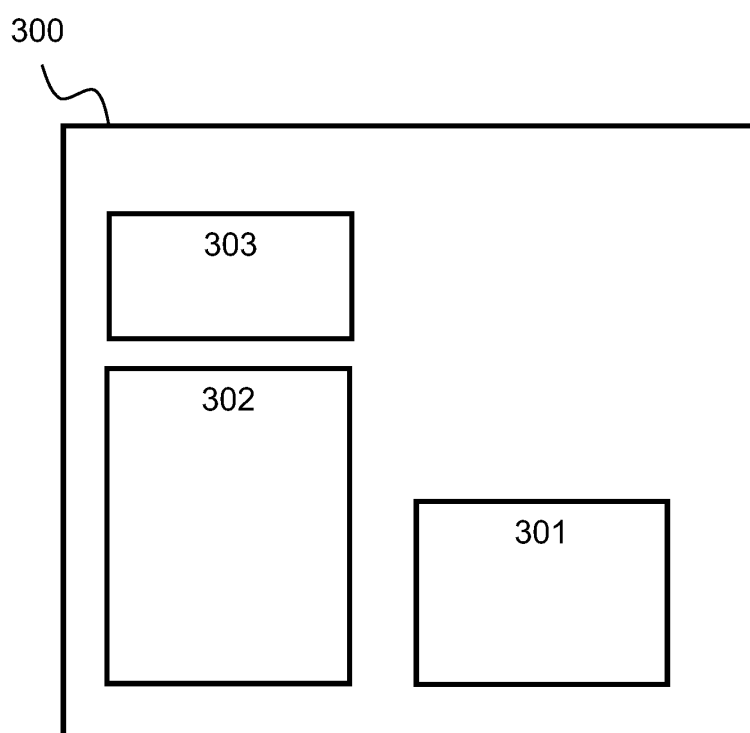


Fig. 3

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1   $R = \{\}$ ;
2   $P' \leftarrow \text{sort\_descending}(P, v_p)$ ;
3   $T' \leftarrow \text{sort\_descending}(T, V_t)$ ;
4  while  $|P'| > 0$  do
5       $j \leftarrow \text{pop}(T')$ 
6       $V^R \leftarrow V_j$ 
7       $P^* \leftarrow \{i \in P' : v_{i,r} \leq V_{j,r} \forall r \in R\}$ 
8      if  $|P^*| > 0$  then
9          while  $|P^*| > 0$  do
10              $p \leftarrow \text{pop}(P^*)$ 
11             if  $\text{!constr\_violated}(j, i, R, V^R)$  then
12                  $R \leftarrow R \cup (j, i)$ 
13                  $V^R \leftarrow V^R - v_i$ 
14                  $\text{remove}(P', i)$ 
15             end
16         end
17     else
18         | Result: Infeasible
19     end
20 end
    Result:  $\text{reduce\_bin\_sizes}(R)$ 

```

Fig. 4