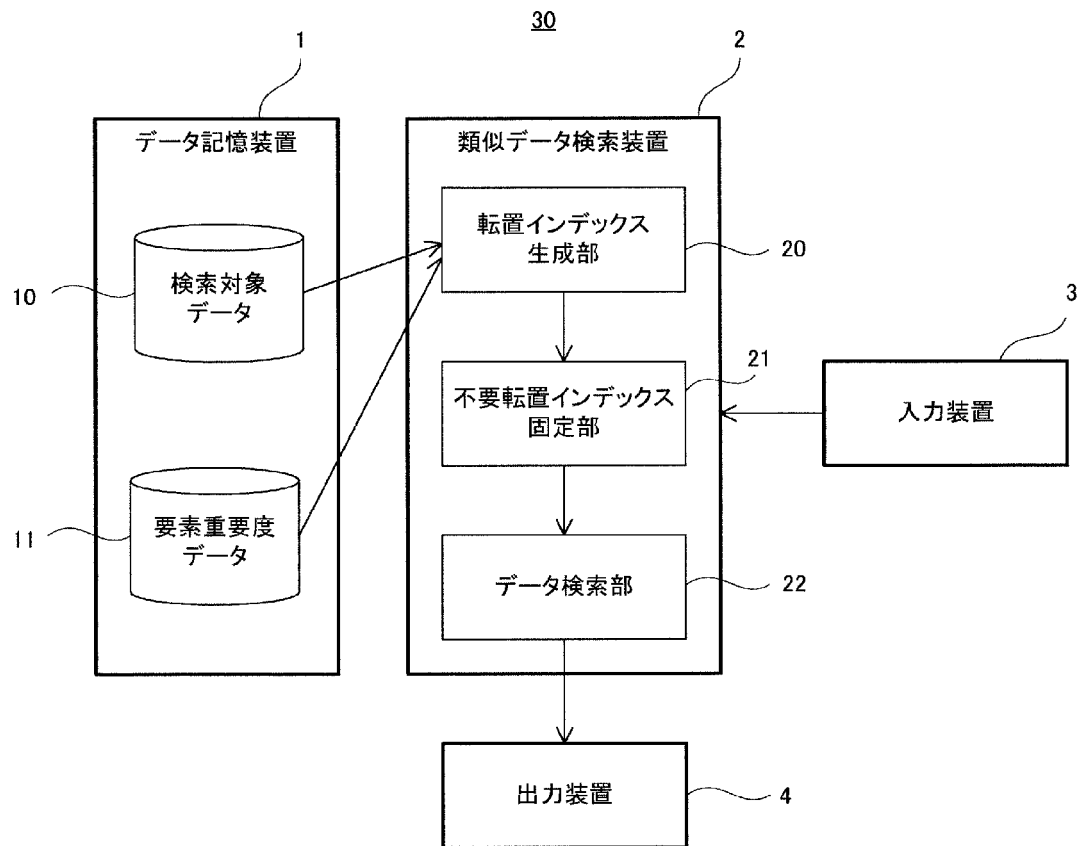
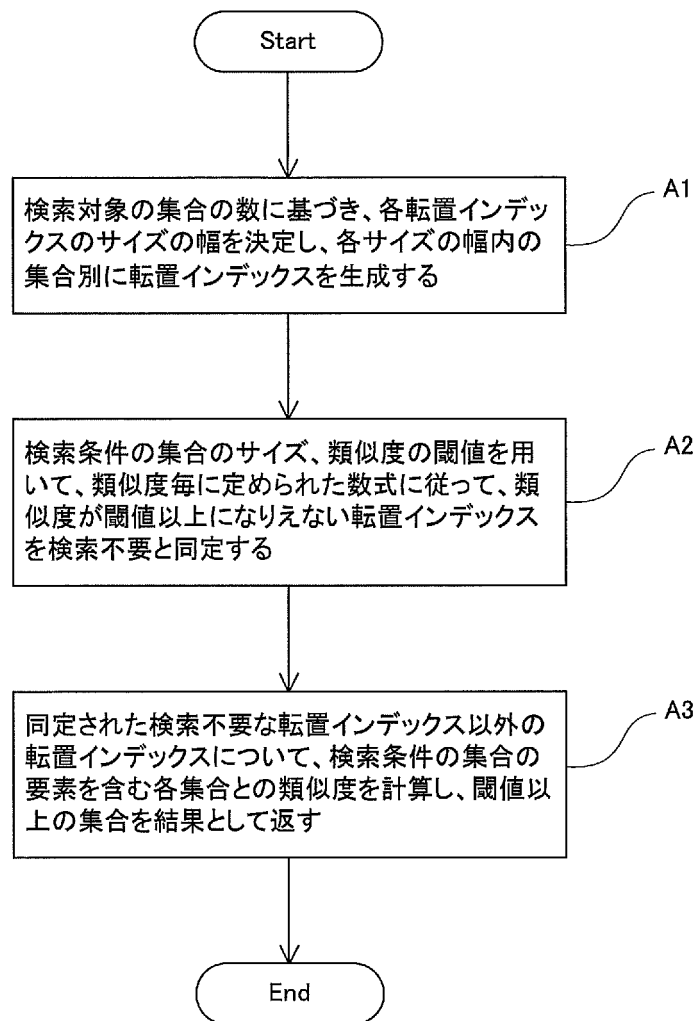


[図1]



[図2]

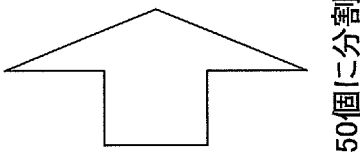


検索対象データ(検索対象の集合)

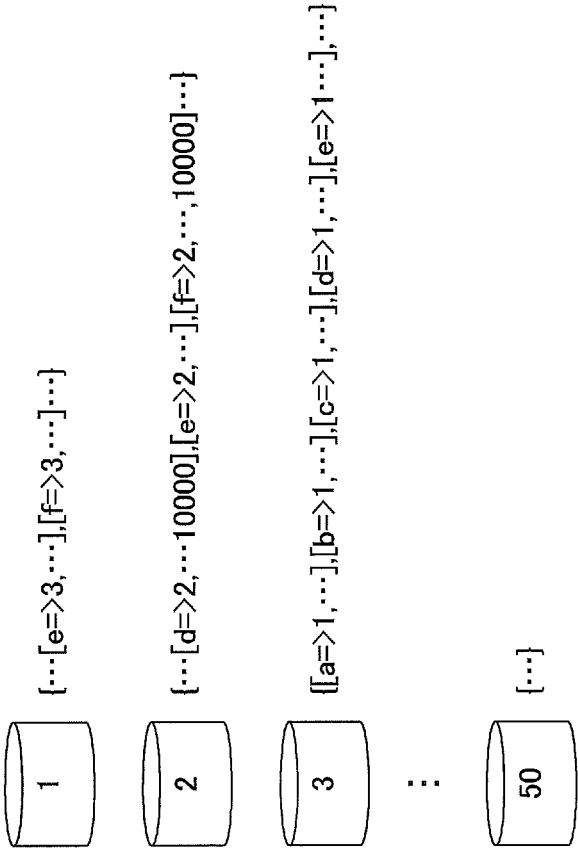
| SID   | 要素            | サイズ |
|-------|---------------|-----|
| 1     | a, b, c, d, e | 6.8 |
| 2     | d, e, f       | 5.5 |
| 3     | c, e, f       | 3.3 |
| ...   | ...           | ... |
| 10000 | d, f          | 5.0 |

要素重要度データ

| 要素  | 重要度 |
|-----|-----|
| a   | 1.0 |
| b   | 1.5 |
| c   | 0.8 |
| d   | 3.0 |
| e   | 0.5 |
| f   | 2.0 |
| ... | ... |



| 転置インデックスID(i) | サイズの最小値( $\beta_i$ ) |
|---------------|----------------------|
| 1             | 0.5                  |
| 2             | 3.5                  |
| 3             | 6.0                  |
| 4             | 8.0                  |
| ...           | ...                  |



[図3]

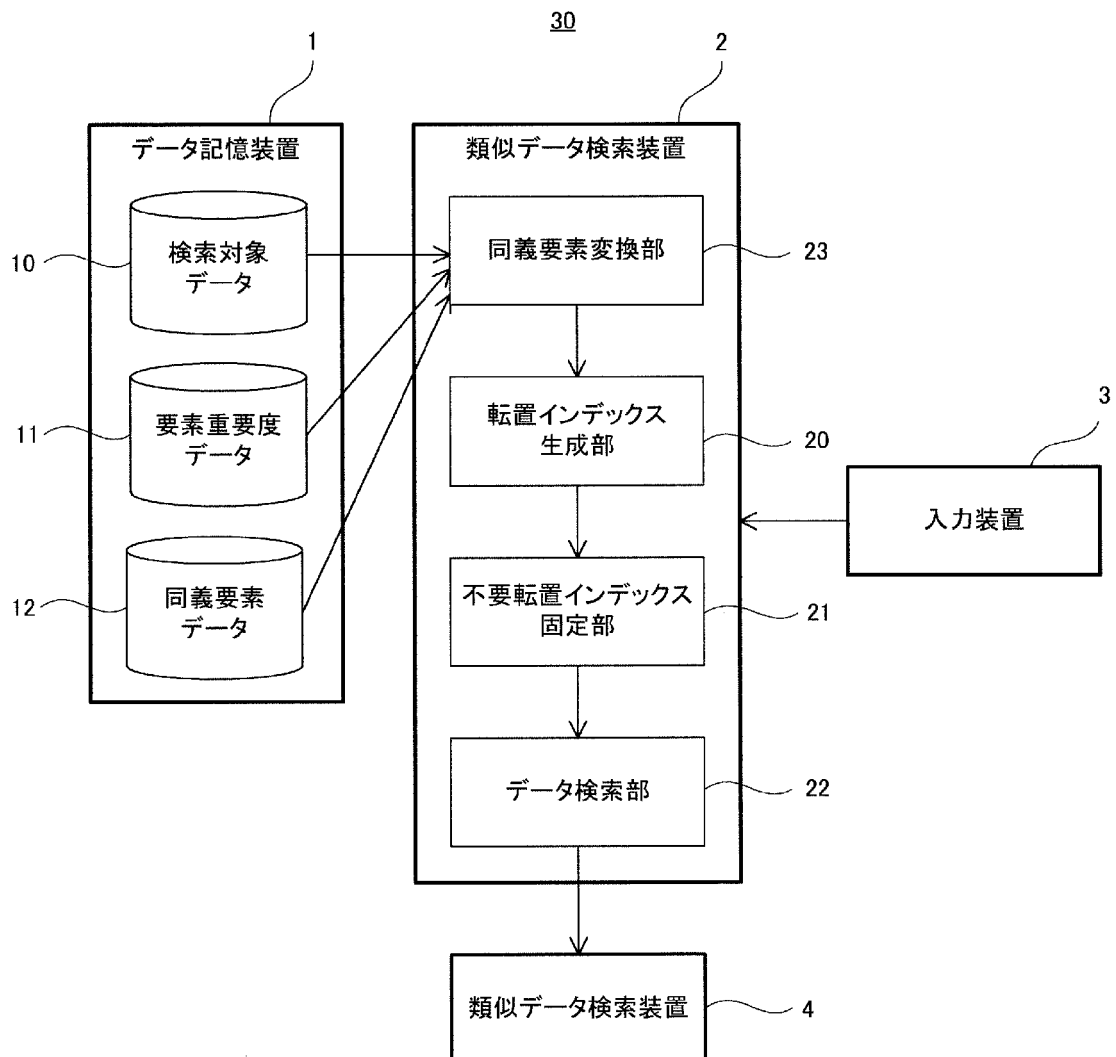
[図4]

| 類似度          | Min  D                  | Max  D                 |
|--------------|-------------------------|------------------------|
| Overlap(Q,D) | なし                      | $ Q /\alpha$           |
| Overlap(D,Q) | $\alpha  Q $            | なし                     |
| Cosine       | $\alpha^2  Q $          | $ Q /\alpha^2$         |
| Dice         | $\alpha  Q /(2-\alpha)$ | $(2-\alpha) Q /\alpha$ |
| jaccard      | $\alpha  Q $            | $ Q /\alpha$           |

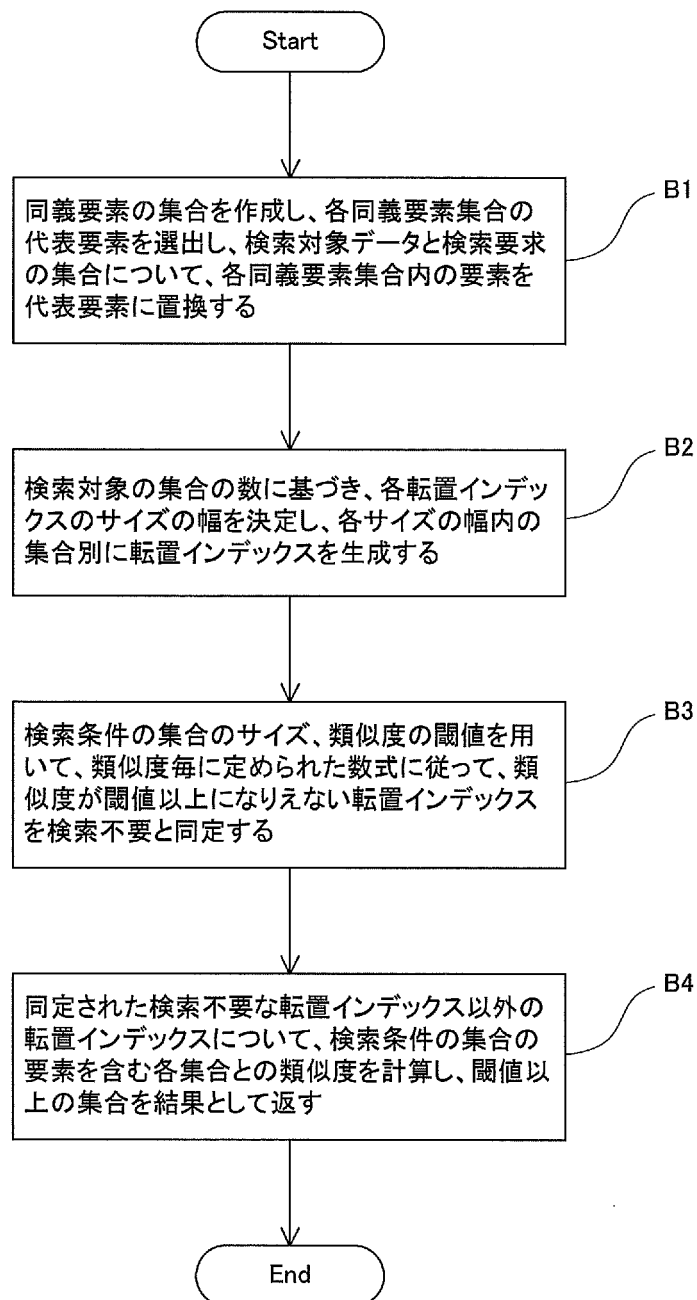
[図5]

| 類似度          | $\tau$                        |
|--------------|-------------------------------|
| overlap(Q,D) | $\alpha  D $                  |
| overlap(D,Q) | $\alpha  Q $                  |
| cosine       | $\alpha  Q  D $               |
| dice         | $\alpha ( Q + D )/2$          |
| jaccard      | $\alpha ( Q + D )/(1+\alpha)$ |

[図6]



[図7]



[図8]

