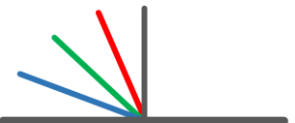
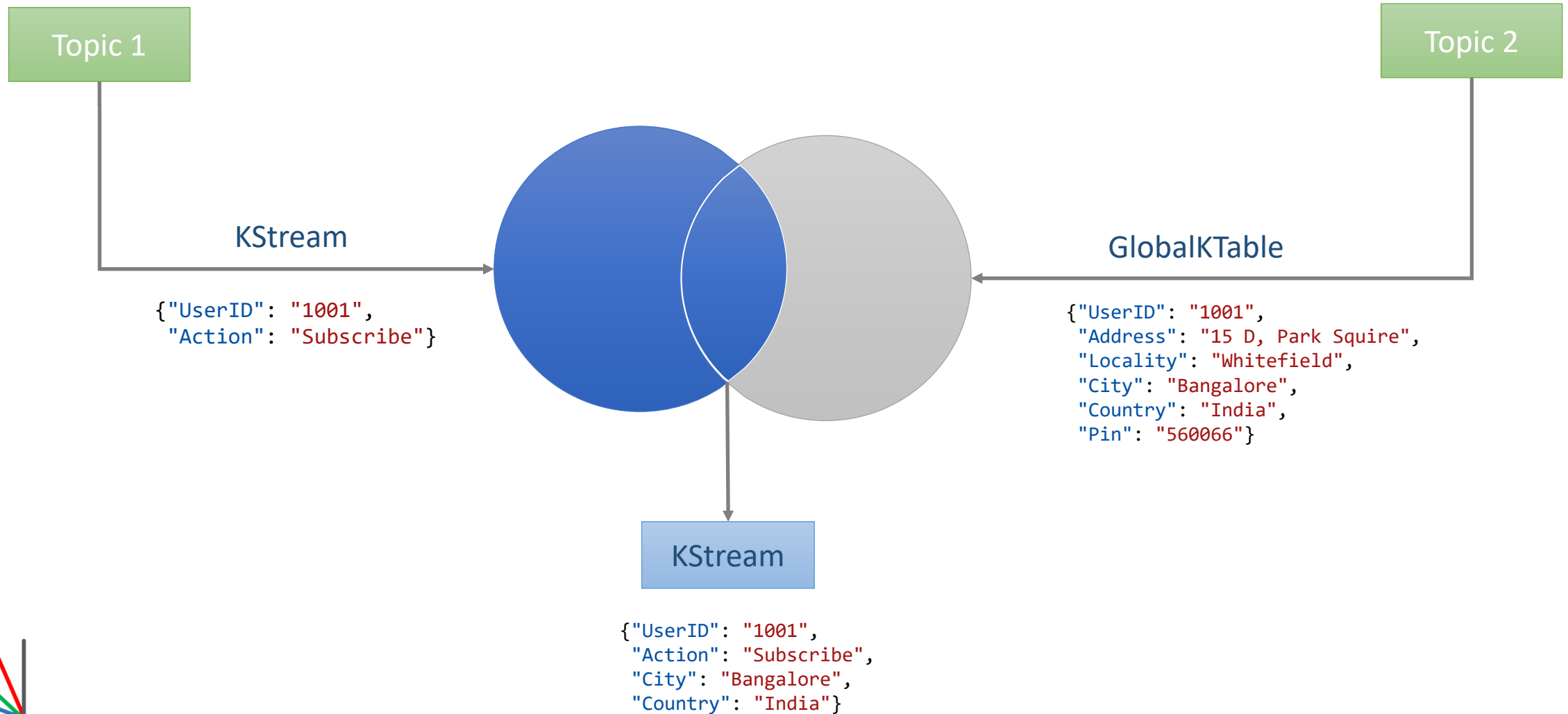


A mechanical device, possibly a model of a stream processing engine, is shown. It features a yellow spool on the left, a series of black gears in the center, and a blue component on the right. A black chain is visible at the bottom. The text "KStream-KTable Joins" is overlaid in white in the center.

KStream-KTable Joins

KStream - GlobalKTable Join



KStream - GlobalKTable Joins

Problem Description - Compute the Advert Clicks by News Type



Sample Inventory List

```
1001:{"InventoryID": "1001", "NewsType": "Sports"}
1002:{"InventoryID": "1002", "NewsType": "Politics"}
1003:{"InventoryID": "1003", "NewsType": "LocalNews"}
1004:{"InventoryID": "1004", "NewsType": "WorldNews"}
1005:{"InventoryID": "1005", "NewsType": "Health"}
1006:{"InventoryID": "1006", "NewsType": "Lifestyle"}
1007:{"InventoryID": "1007", "NewsType": "Literature"}
1008:{"InventoryID": "1008", "NewsType": "Education"}
1009:{"InventoryID": "1009", "NewsType": "Social"}
1010:{"InventoryID": "1010", "NewsType": "Business"}
```

Sample Click Events

```
1001:{"InventoryID": "1001"}
1002:{"InventoryID": "1002"}
1003:{"InventoryID": "1003"}
1001:{"InventoryID": "1001"}
1003:{"InventoryID": "1003"}
1005:{"InventoryID": "1005"}
1002:{"InventoryID": "1002"}
1001:{"InventoryID": "1001"}
1003:{"InventoryID": "1003"}
1003:{"InventoryID": "1003"}
```

News Type	Total Clicks
Sports	3
Politics	2
Local News	4
Health	1