

100

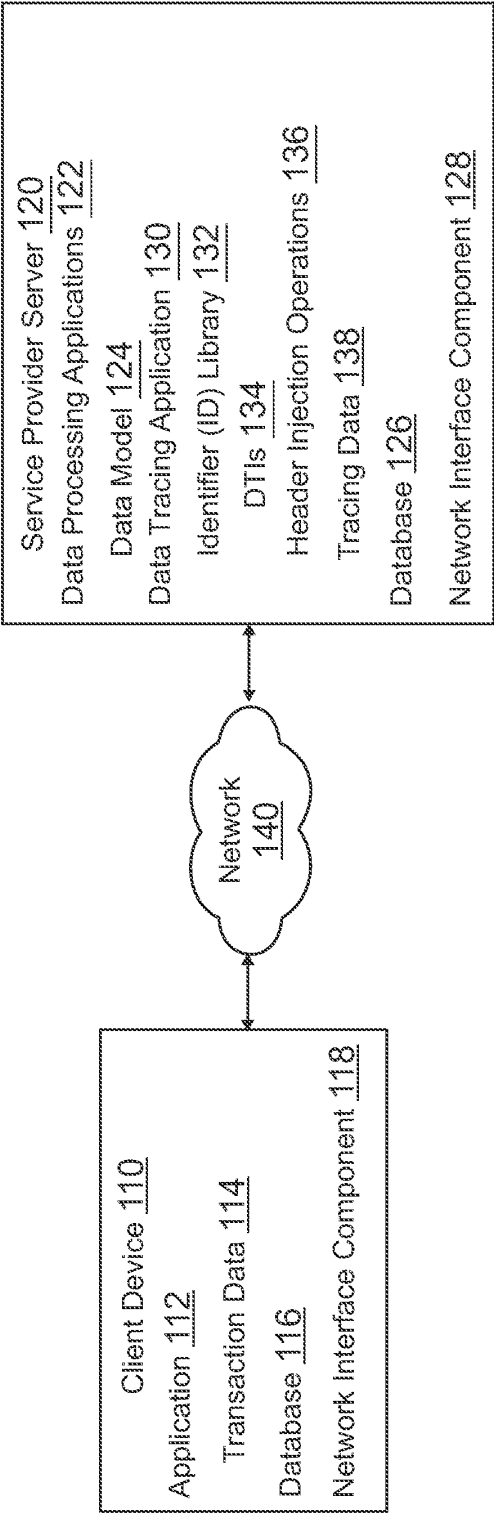


FIG. 1

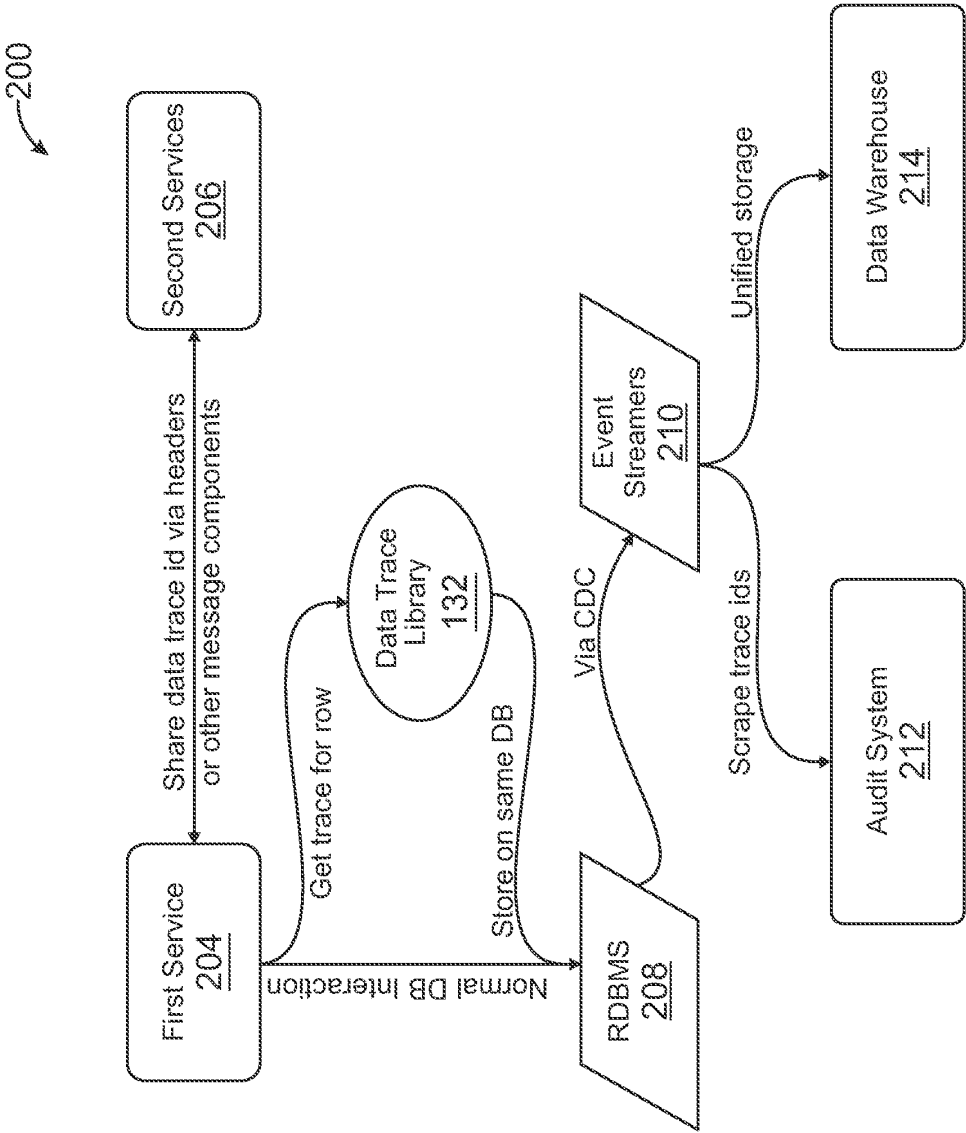


FIG. 2

300

```
create table data_traces {
  id VARCHAR(255) NOT NULL PRIMARY KEY,
  entity_type VARCHAR(255) NOT NULL,
  entity_id VARCHAR(255) NOT NULL,
  trace_id VARCHAR(255) NOT NULL,
  inserted_at TIMESTAMP NOT NULL,
  updated_at TIMESTAMP NOT NULL,
}
```

304

```
data class Entity (
  val type: String
  val id: String
)

interface DataTracingContext {
  /**
   * Get current trace id based on http headers or entity if passed.
   * It will check that both match and setup forwarding.
   */
  fun traceId(entity: Entity? = null): String?

  /**
   * Logs traceId for an entity, it will use the traceId forwarded
   */
}
```

306

308

```
available or create a new one.
If a new one needs to be created, it automatically sets it up forwarding
to other services.
Most applications will only need to call this when creating a new entity in the database.
*/
fun logTraceId(entity: Entity): String
}
```

310

FIG. 3

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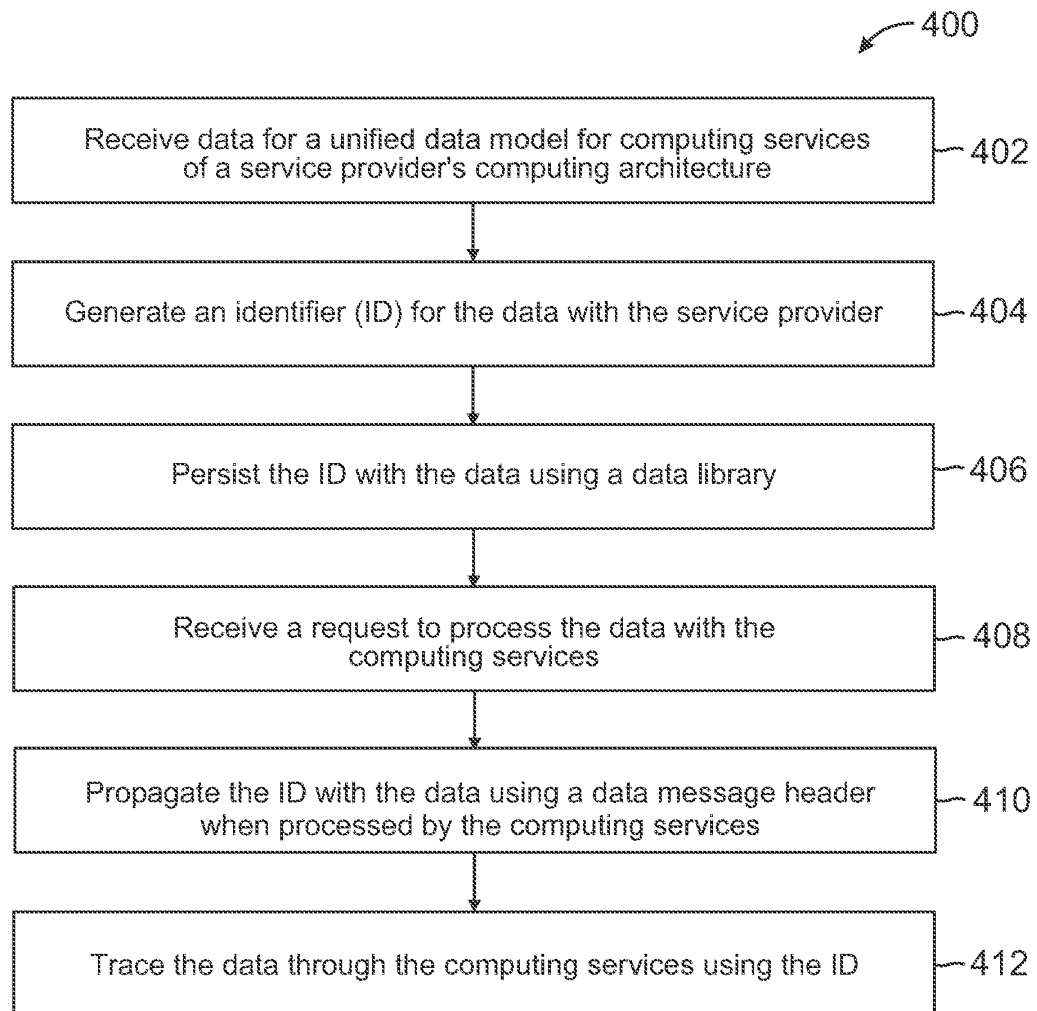


FIG. 4

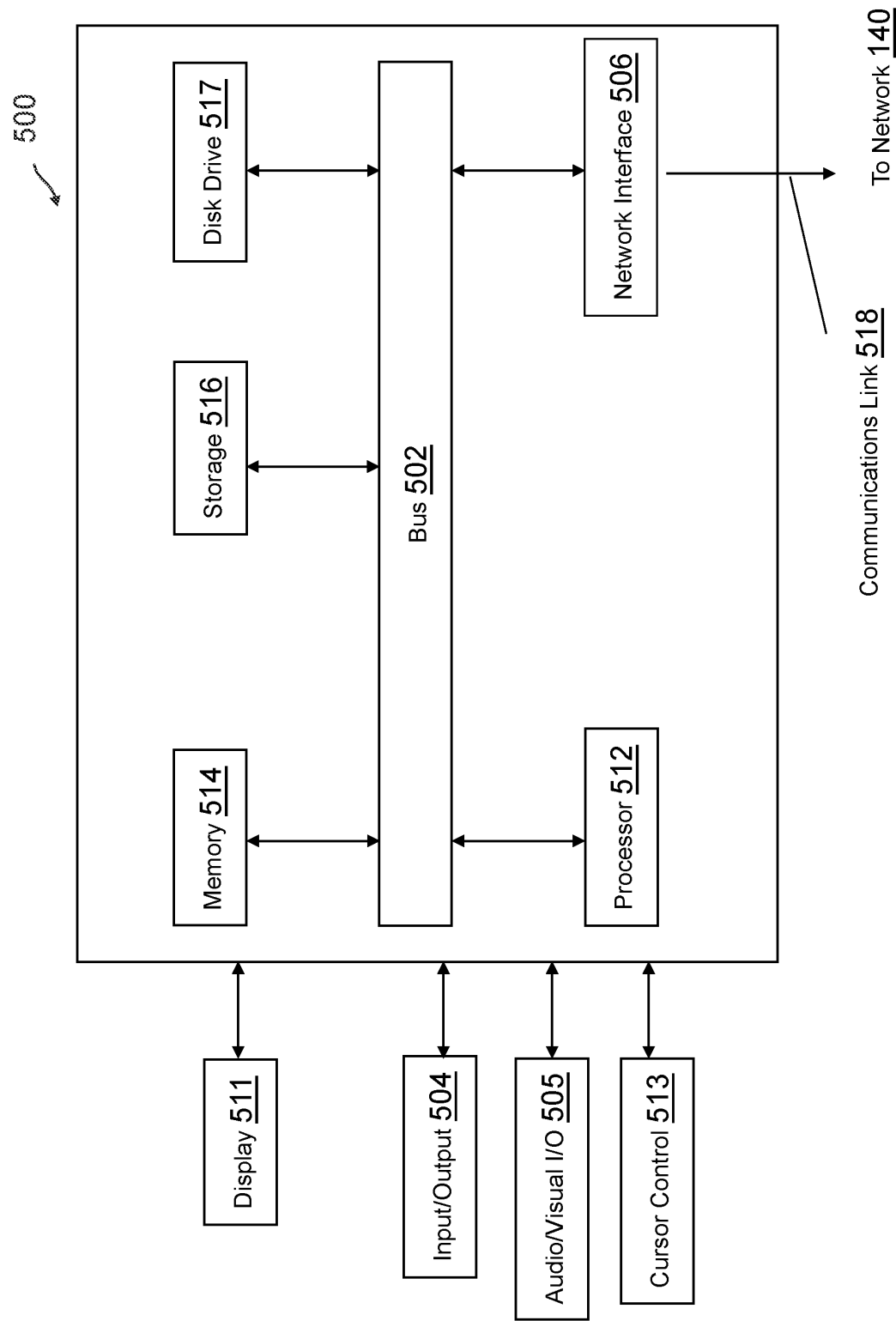


FIG. 5