

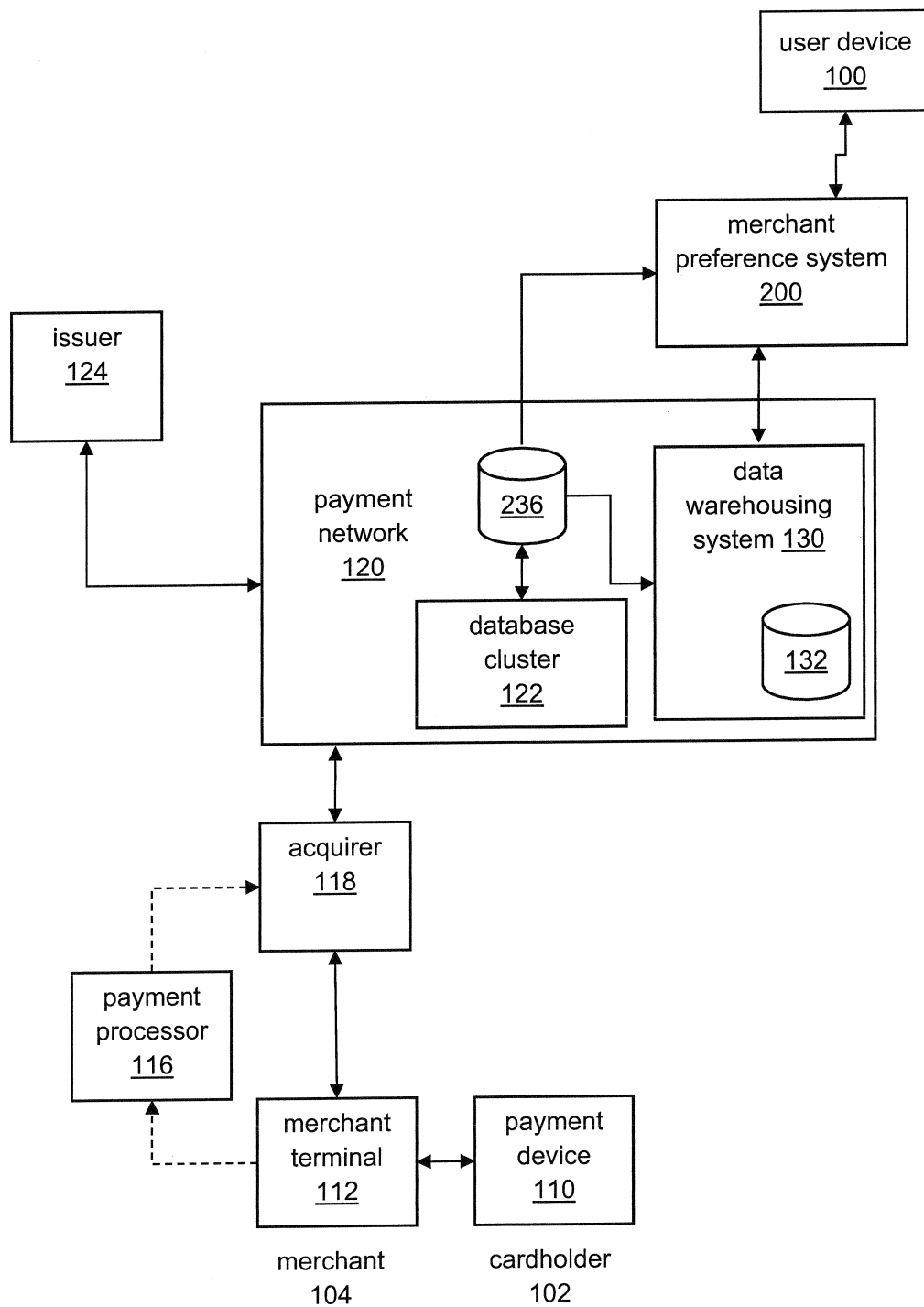


FIG. 1

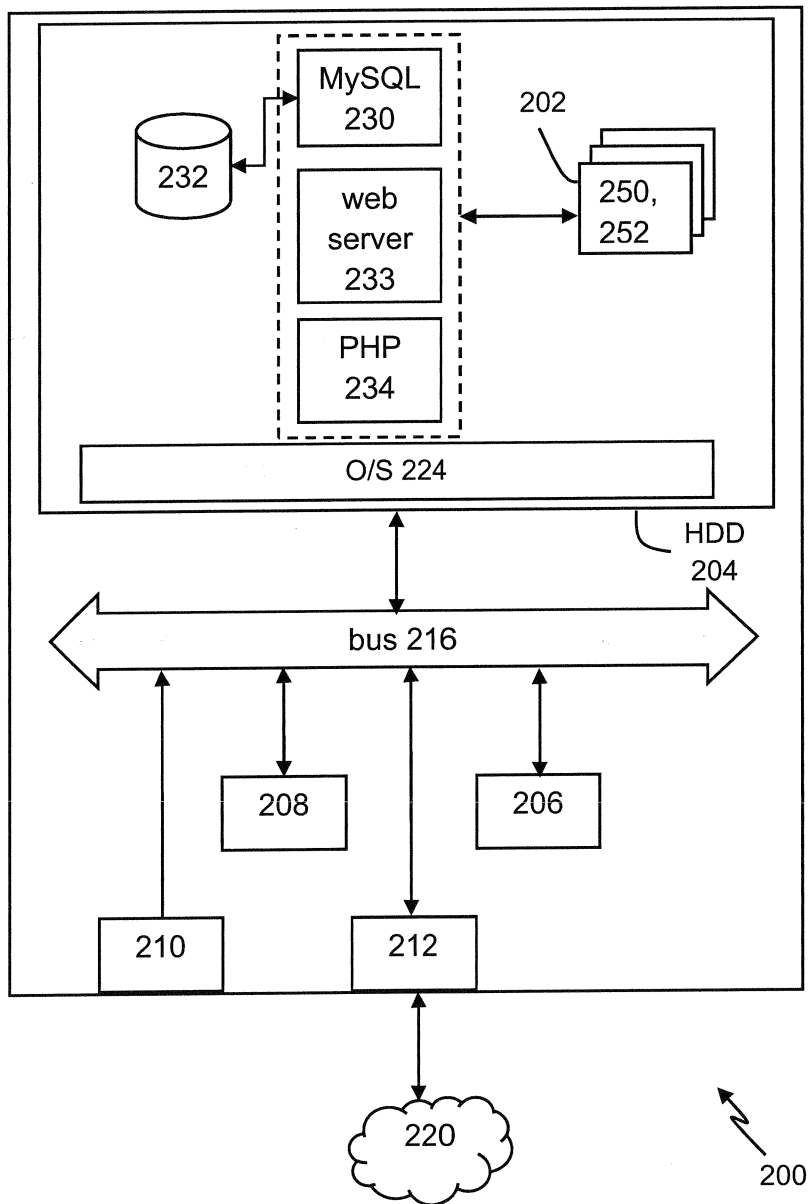


FIG. 2

Debit Cards Data					
		Merchant Outlets			
		Starbucks Bedok MRT	Starbucks Changi	Starbucks Suntec City	McDonalds Bugis Jn
Merchant Outlets	Starbucks Bedok MRT				
	Starbucks Changi				
	Starbucks Suntec City				
	McDonalds Bugis Jn				

FIG. 3A

Trasaction Data Aggregated at Merchant Outlet-Time							
Merchant Name	Outlet Name	Card type	Date	Time Slot	Index_Cards	Index_transactions	Index_Spend
Starbucks	Starbucks Bedok MRT	Debit	1-Jan-13	00:00 to 03:00	1.1	1.8	0.3
Starbucks	Starbucks Changi	Credit	1-Jan-13	00:00 to 03:00	1.2	1.5	2.2
Starbucks	Starbucks Suntec City	Prepaid	1-Jan-13	00:00 to 03:00	0.6	0.3	0.5
McDonalds	McDonalds Bugis Jn	Credit	1-Jan-13	00:00 to 03:00	0.0	1.6	0.7

Merchant Outlet (to be same as Merchant Outlet in Card level aggregated data)

Day of the year - Data needed for last 365 days

Time of the day - to be divided into 8 slots of 3 hrs each

FIG. 3B

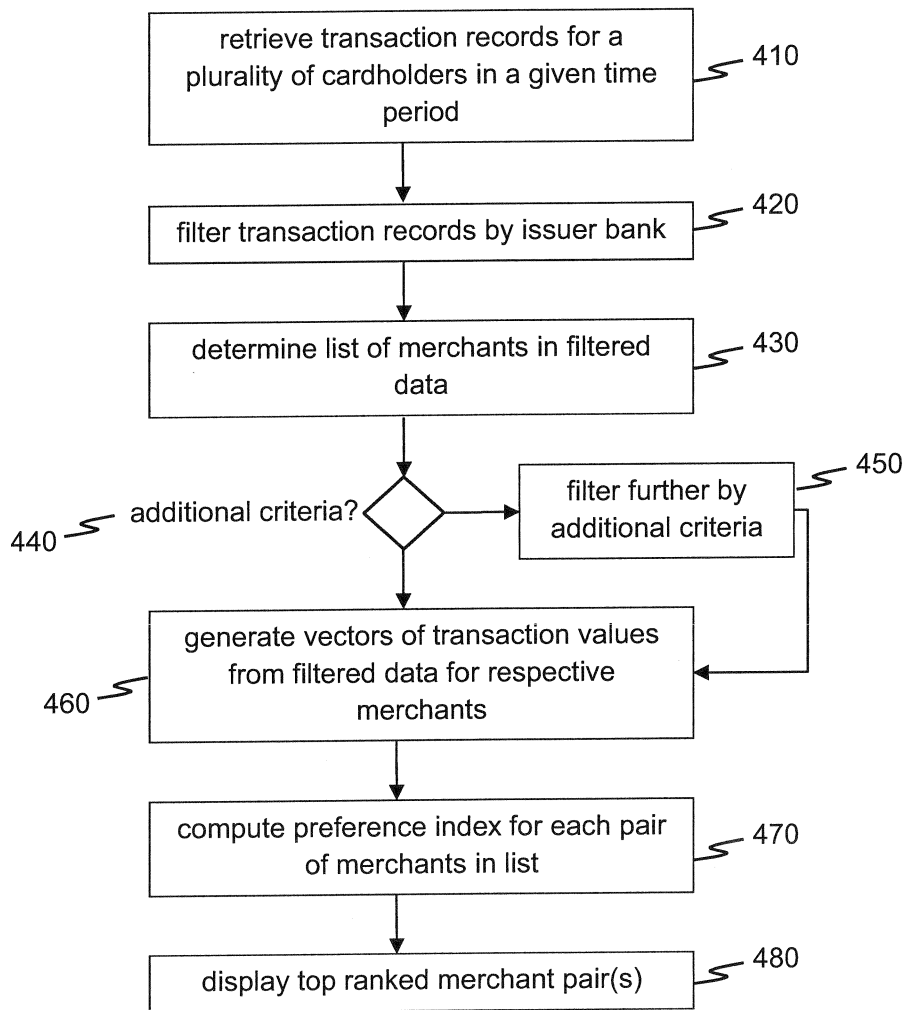
400
↘

FIG. 4

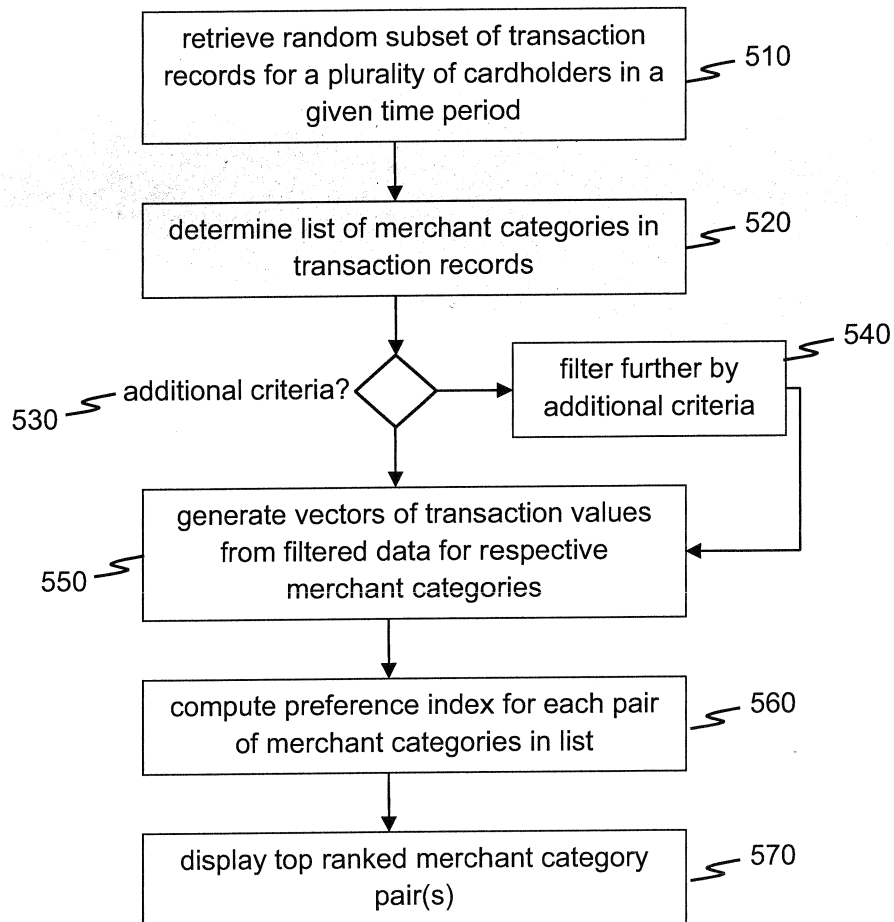
500
↘

FIG. 5

600

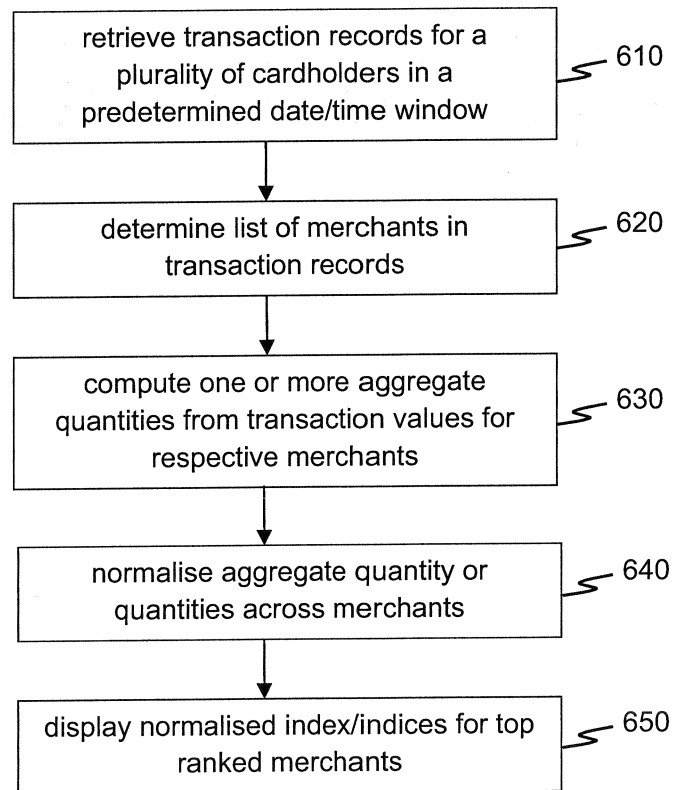


FIG. 6