

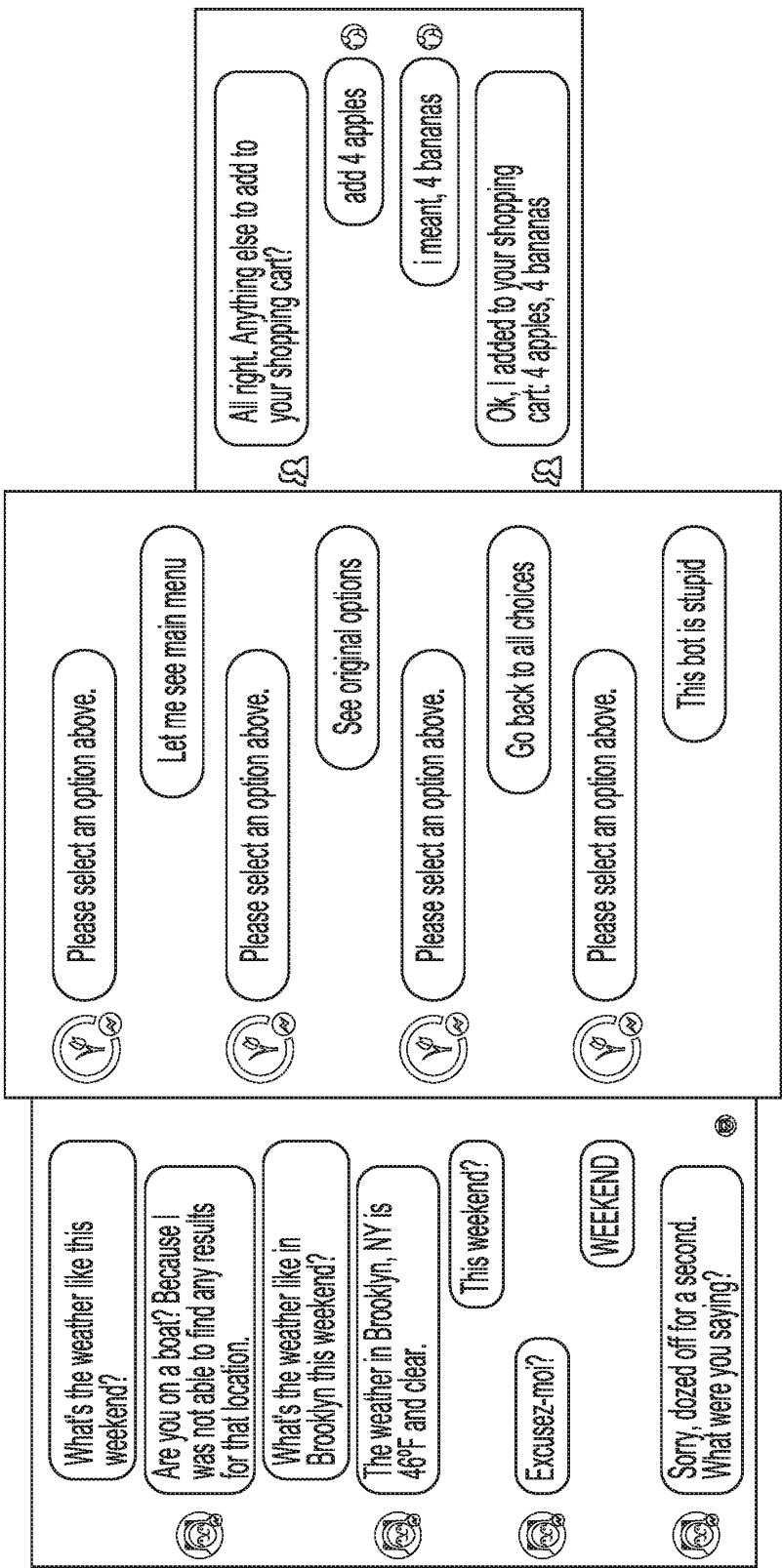


FIG. 1

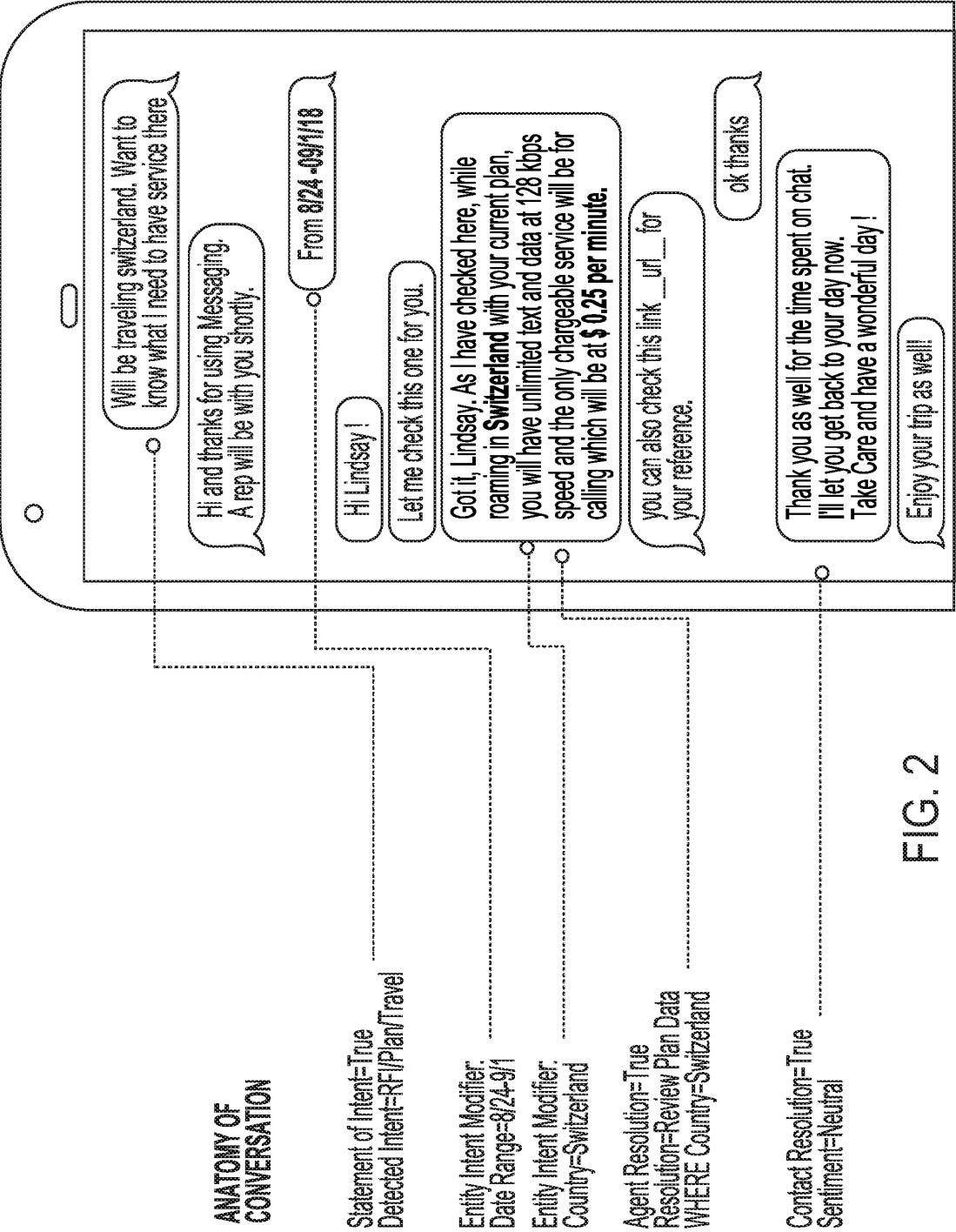


FIG. 2

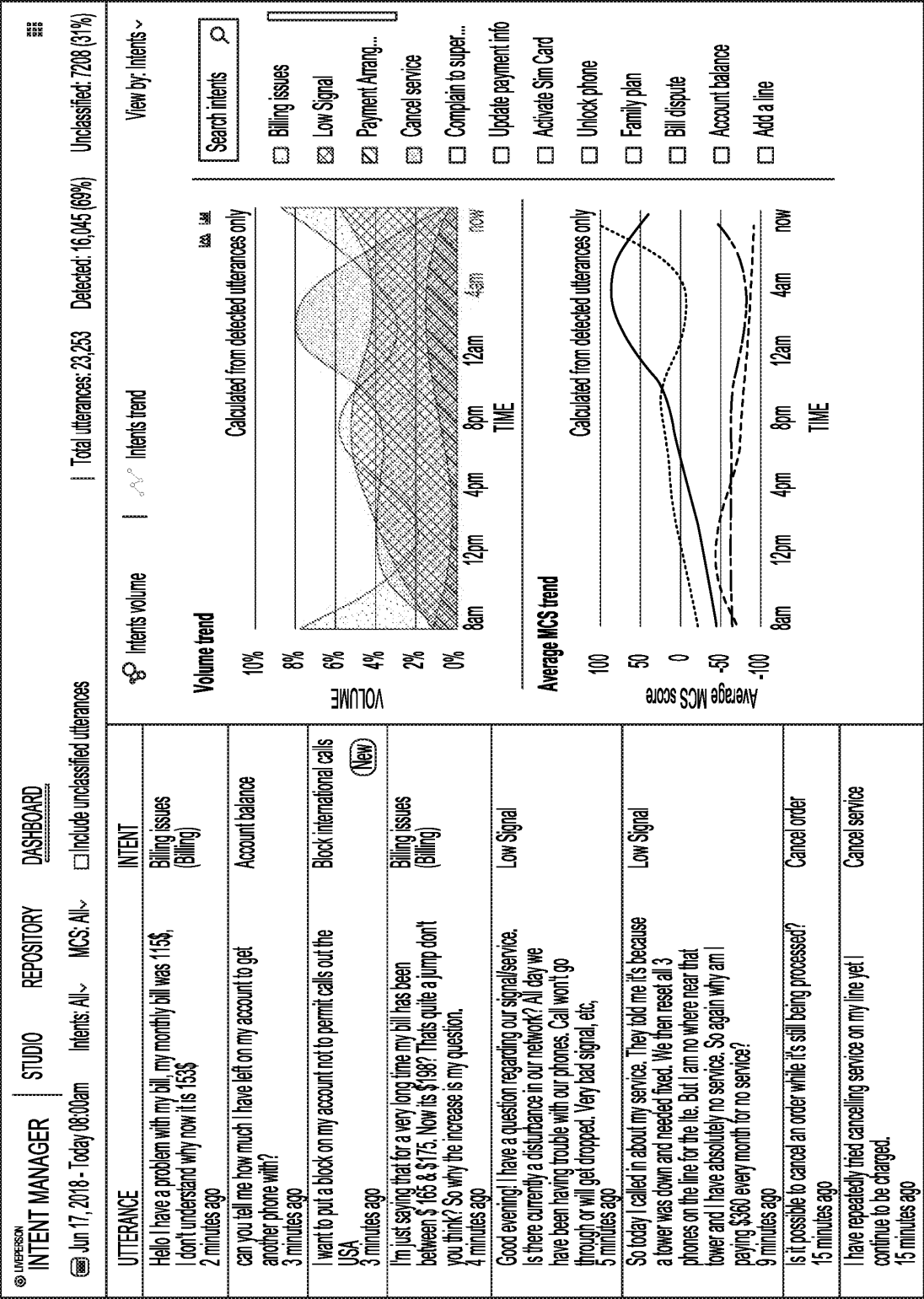
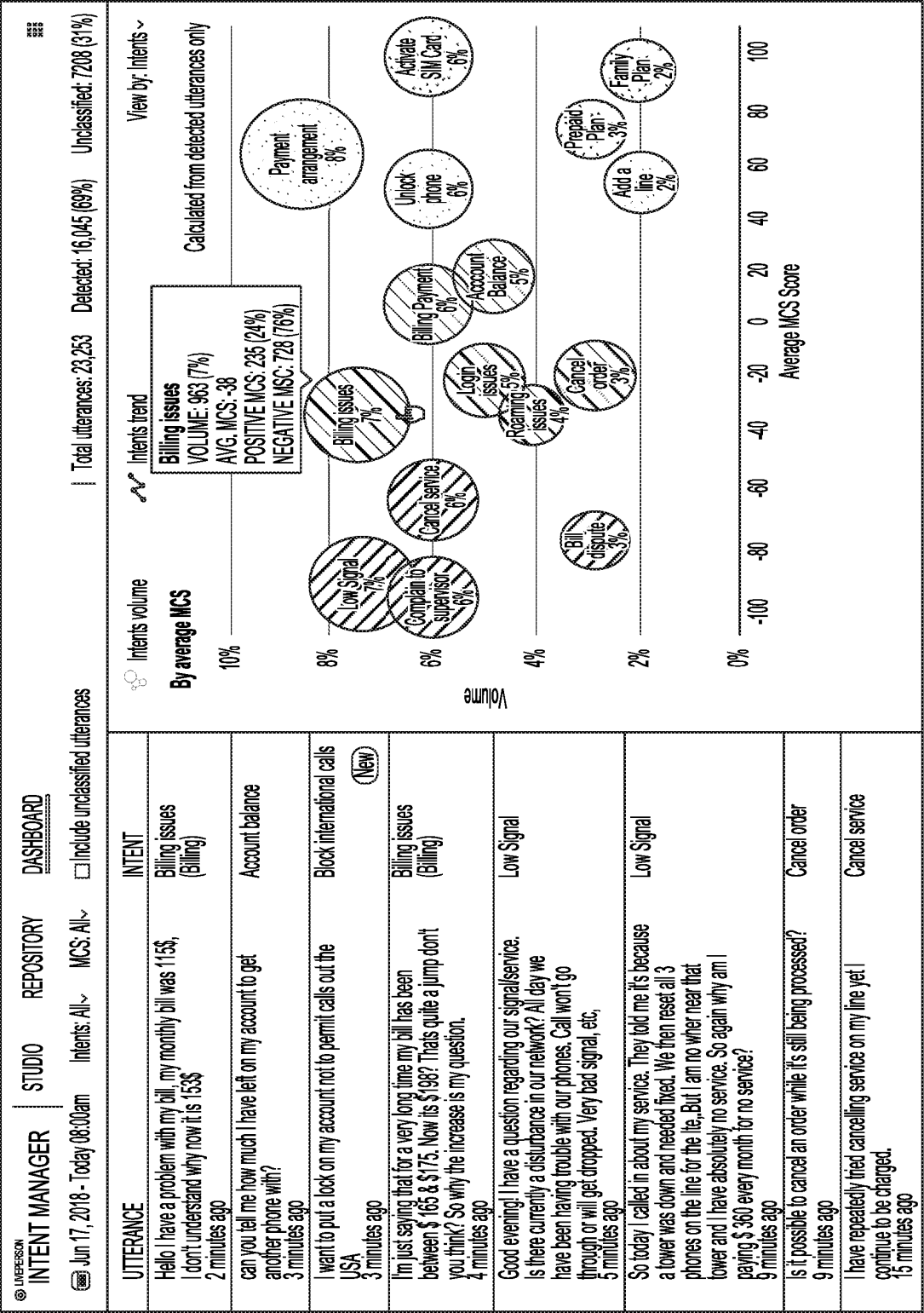


FIG. 3A



Calculated from detected utterances only

FIG. 3B

WEL

```
In [3]: # get their low-d representations
# df_unlabeled = uh.umap(df_unlabeled, 2, 20)?
fig = uh.scatter(df_unlabeled, title = 'Unsupervised Dimension Reduction')
iplot(fig)
```

Unsupervised Dimension Reduction

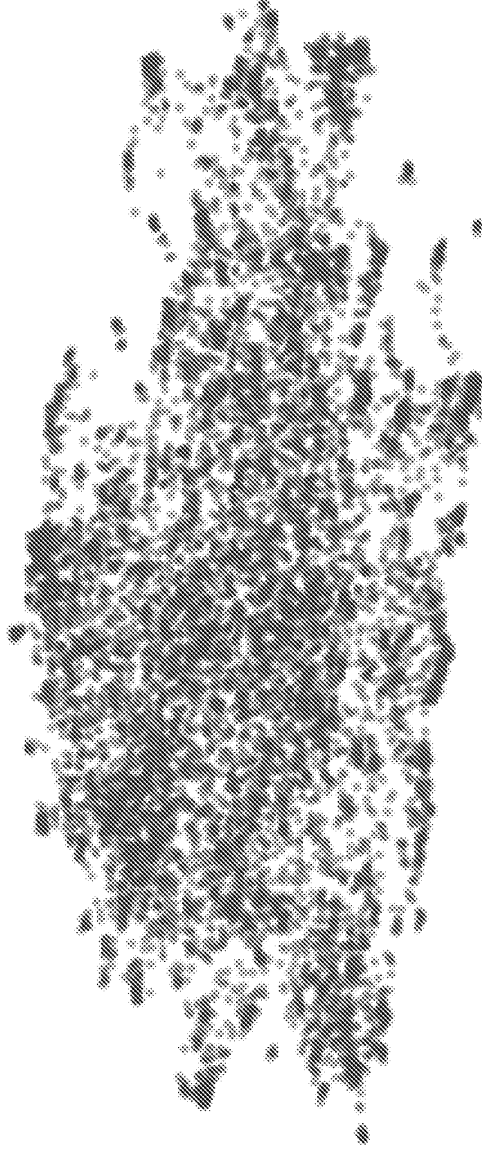


FIG. 3F

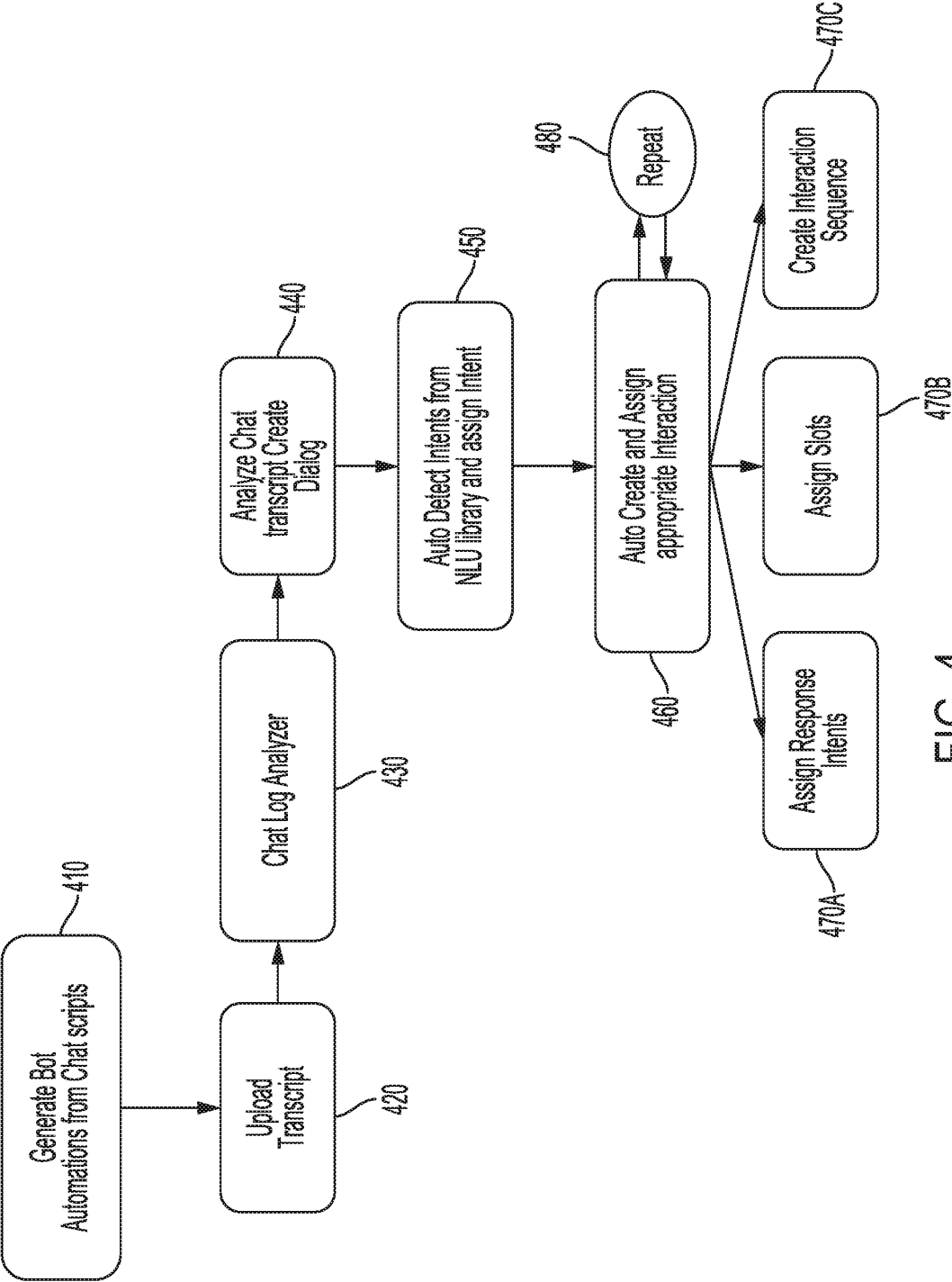


FIG. 4

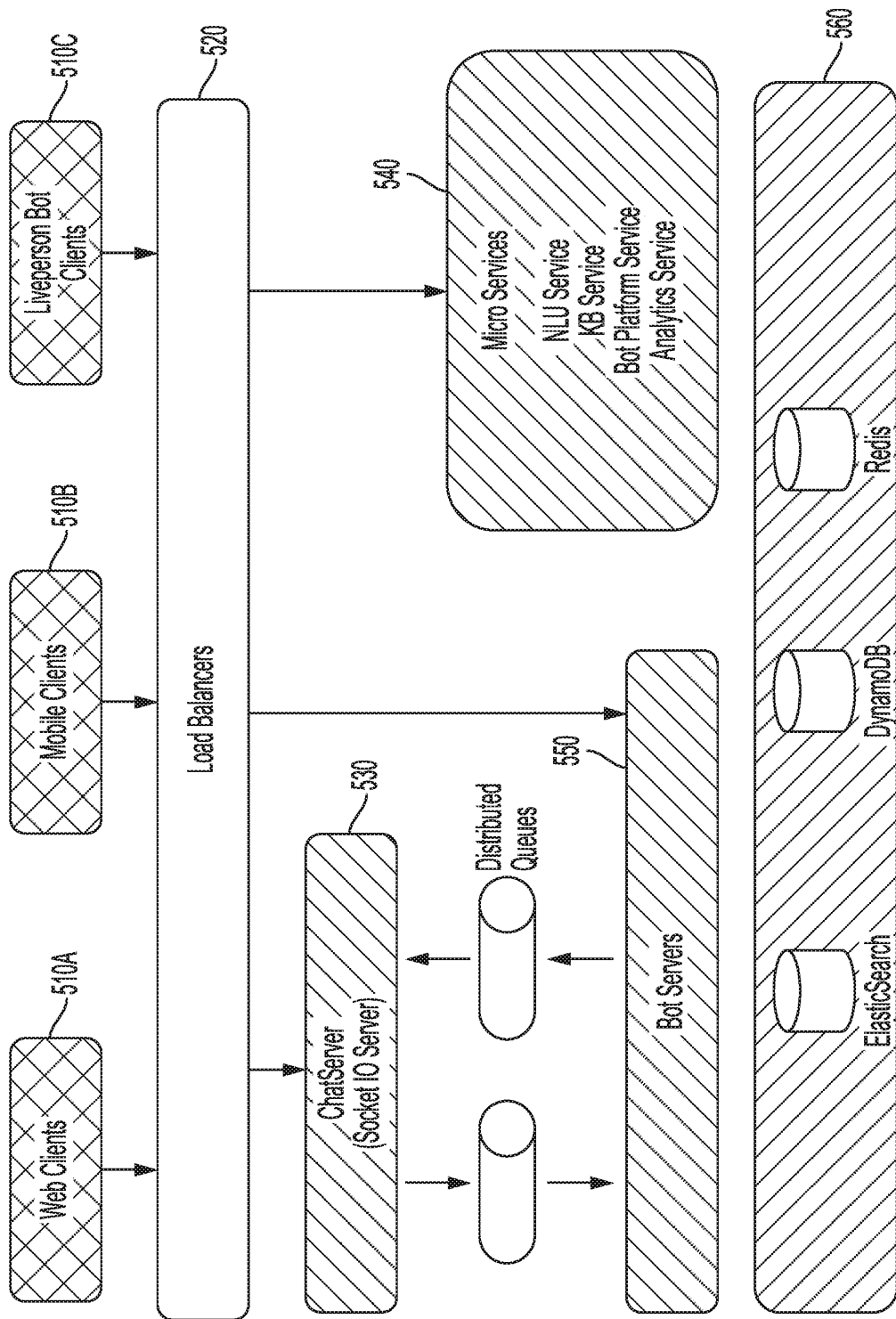


FIG. 5

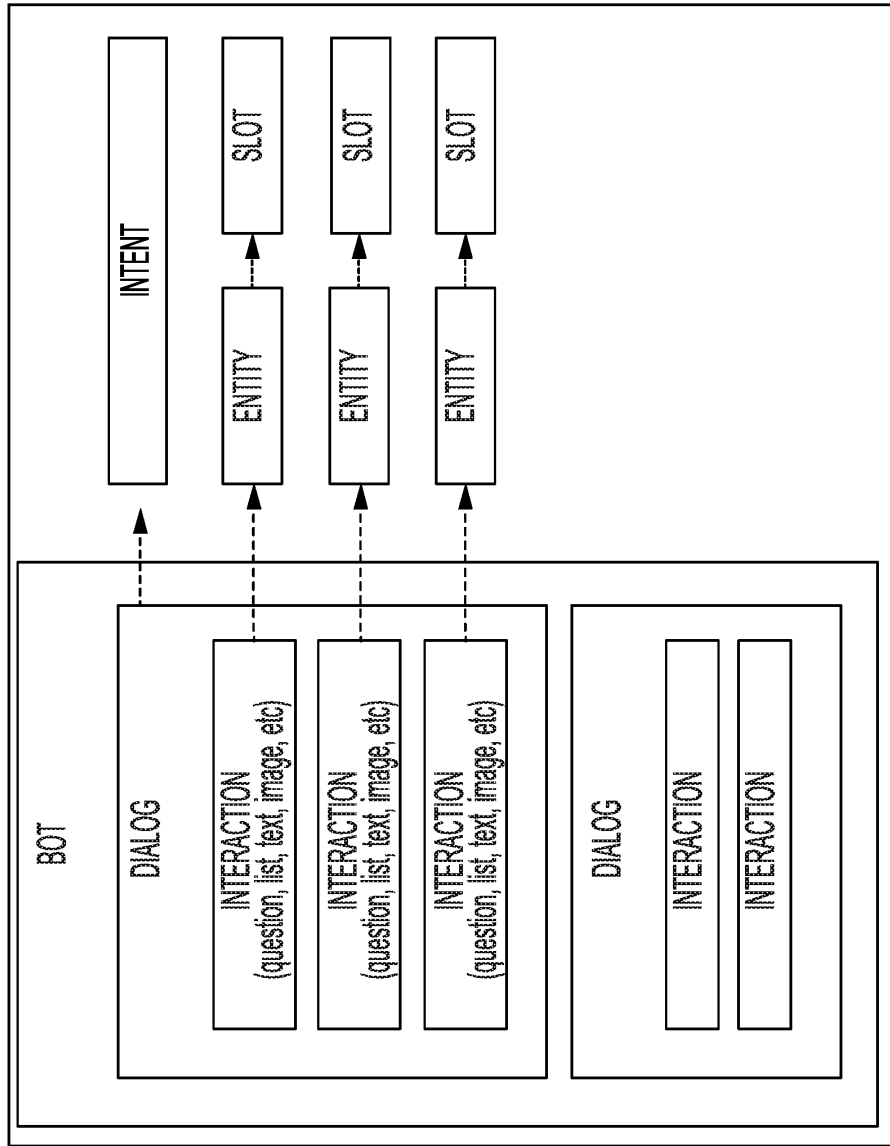


FIG. 6A

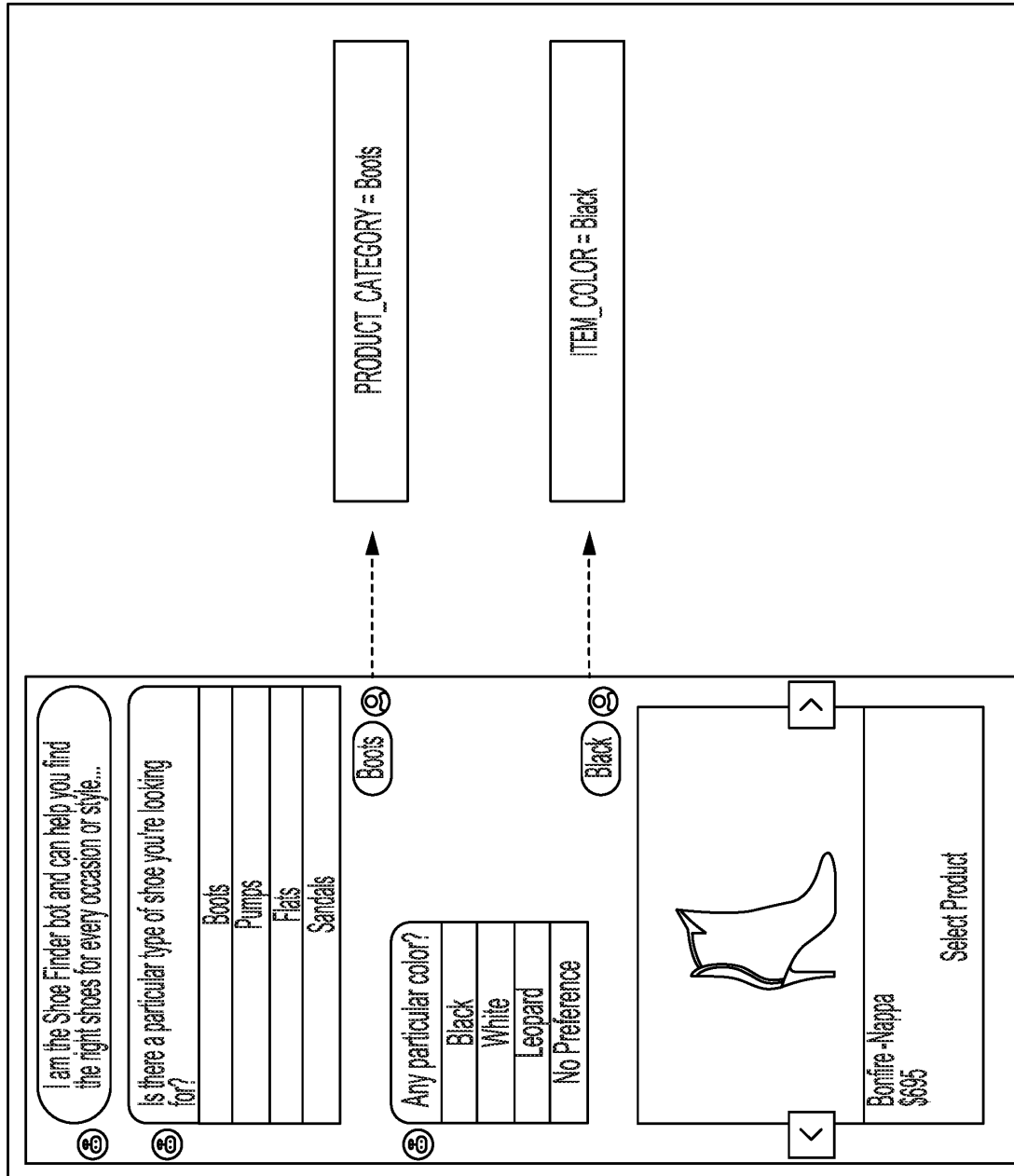


FIG. 6B

What color are you looking for?

-Brown

-Black

-Red

Type sample user answer here...

Assist

domain: Retail

entity: @COLOR

slot: COLOR

Interaction Details

SETTINGS

NEXT ACTIONS

CODE

Response Match & Actions

Conditions

Slot

Slot Name

COLOR

Slot Value

@COLOR

Duration

Dialog

FIG. 6C

INTERACTIONS

STATEMENTS

QUESTION

INTEGRATION

Any particular color?

- Black

- white

- leopard

Black

Prod_Find

Image URL

{Prod_Find.Image}

Item URL

Item URL

Update

black boots

FIG. 6D

Choose a Template①

Search

Basic

Basic Automation

Generic bot template

General Sample TestCategory

Retail Bot

PAC Retail Bot Demo

Retail FAQ

Offer detailed responses for...

Retail Off Business H...

Helps brands capture crucial...

Retail Product Search...

Shoppers can Search and sh...

Retail Checkout

Complete Checkout from Sh...

Retail Gift Guide

Offer a curated guide for gift...

Retail Order Status

Helps shoppers retrieve the l...

Retail Schedule Appoi...

Helps shoppers schedule ap...

Retail Concierge

Welcome message with choi...

Retail Lead Generation

Helps brands capture crucial...

Retail Product Promot...

Offer detailed promotions, di...

FIG. 7A

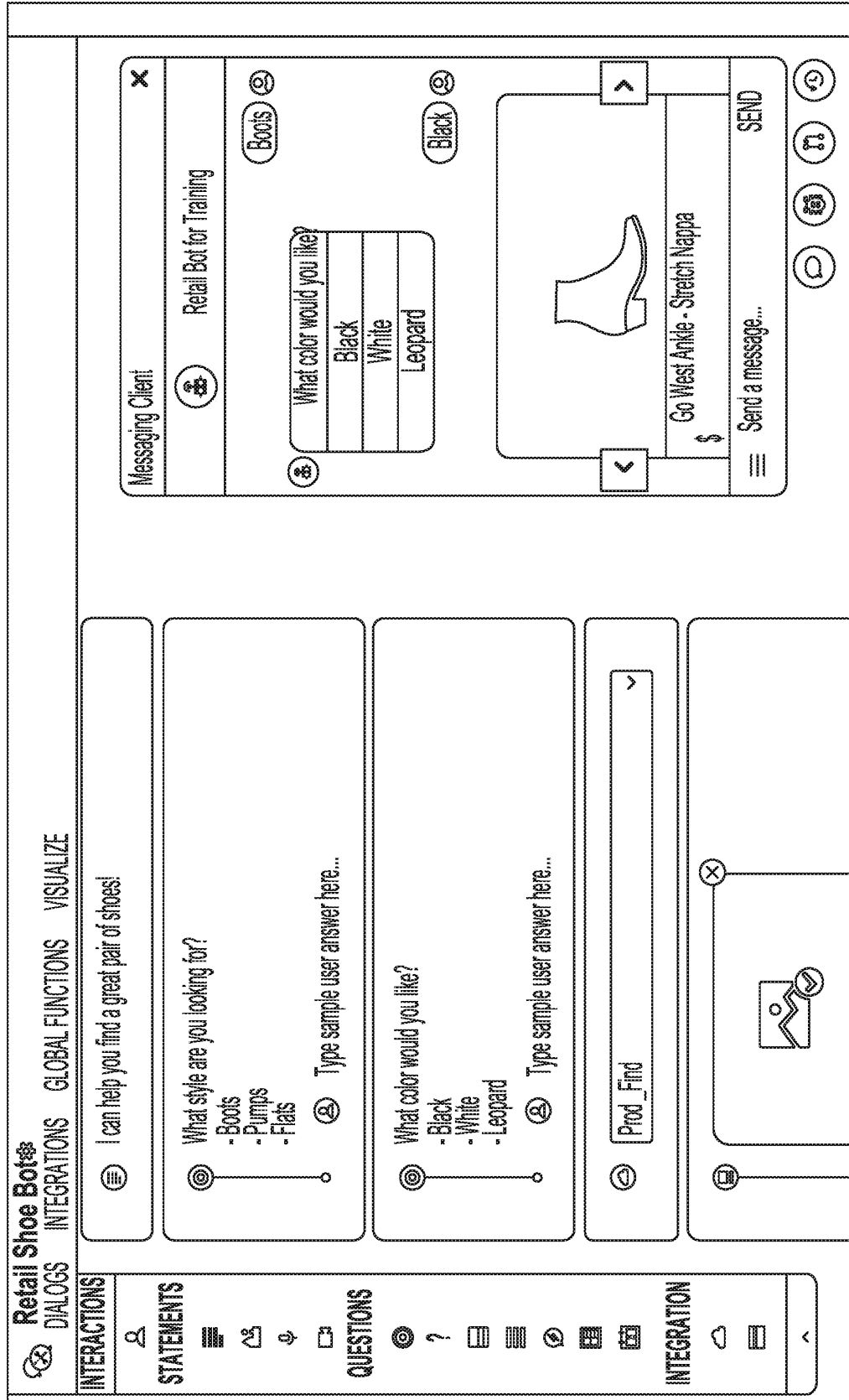


FIG. 7B

⊕ Do you have any red boots?

⊕ Interaction ▾

ⓧ

Assist

domain: Retail

Here is the list of intents that match your user input.
Click on the intent to use it.

Product Availability

VERY_GOOD

Other intents in the domain

Cannot find the intent you want?

Create New Intent

ⓧ

Assist

domain: Retail

Following entities match your choices. Click the entity to use it or create new one if desired.

CATEGORY

Matched: boots

CATEGORY

Matched: sandals

Other entities in the domain

COLOR

Cannot find the entity you want?

Create New Entity

Save user response as slot instead

Enter slot name

Only alphanumeric and underscore are allowed in slot name

ⓧ

Assist

domain: Retail

Following entities match your choices. Click the entity to use it or create new one if desired.

CATEGORY

Matched: boots

CATEGORY

Matched: sandals

Other entities in the domain

COLOR

Cannot find the entity you want?

Create New Entity

Save user response as slot instead

Enter slot name

Only alphanumeric and underscore are allowed in slot name

FIG. 7C

DE
GE

I want to buy a pair of shoes

Hi I can help you find a great pair of shoes...

Do you have a particular style in mind?

Boots

Pumps

Sandals

Any particular color?

Black

White

Leopard

Nah, change to pumps

Ok changed to Pumps

Any particular color?

Black

White

Leopard

I like them in black

I like them in black

Blaze - Nappa
550

View Details

Want to see more shoes? Just ask me to change the style or color.

show them in Leopard

Ok changed to leopard

Siren - Haircalf
550

FIG. 7E