

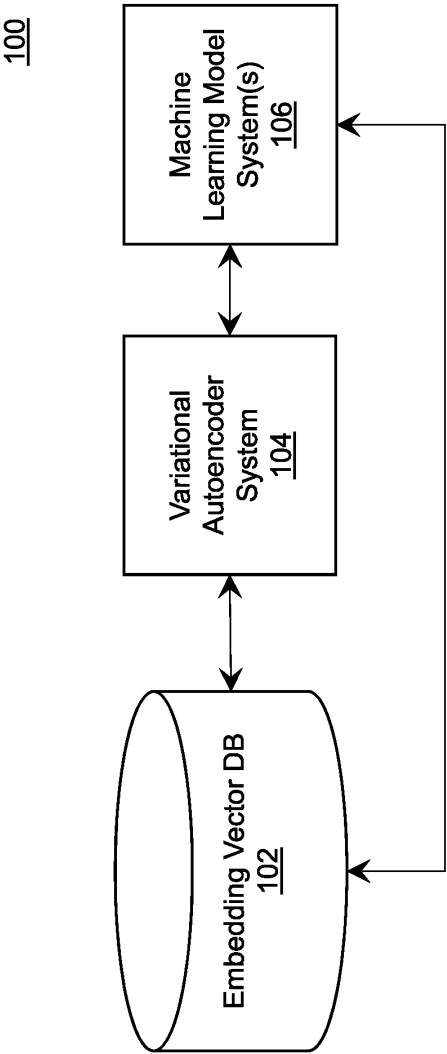


FIG. 1

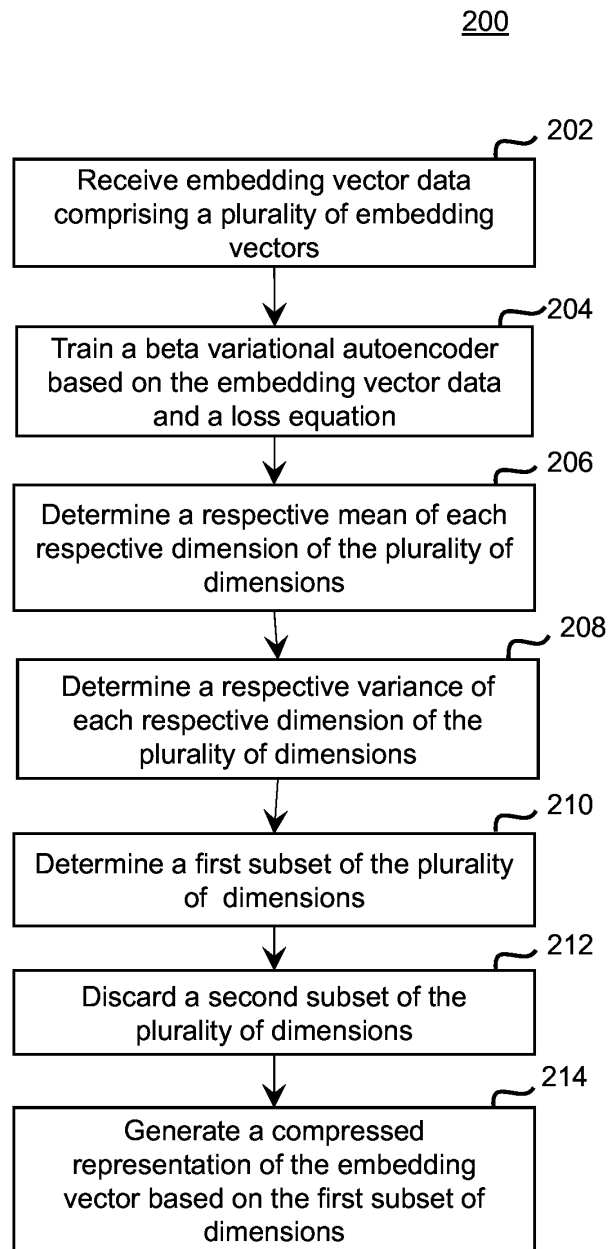


FIG. 2

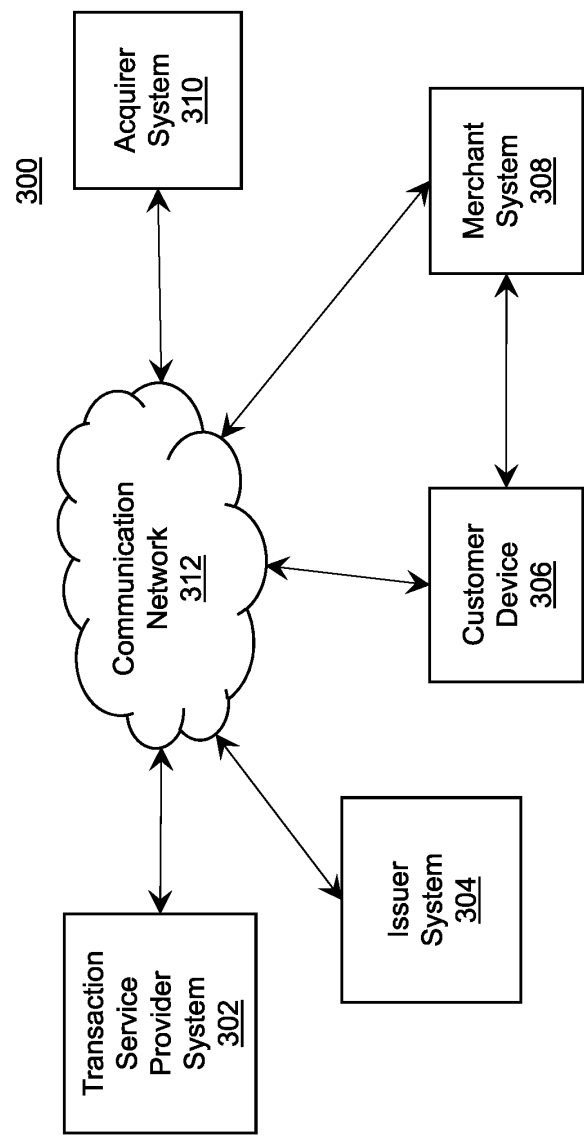


FIG. 3

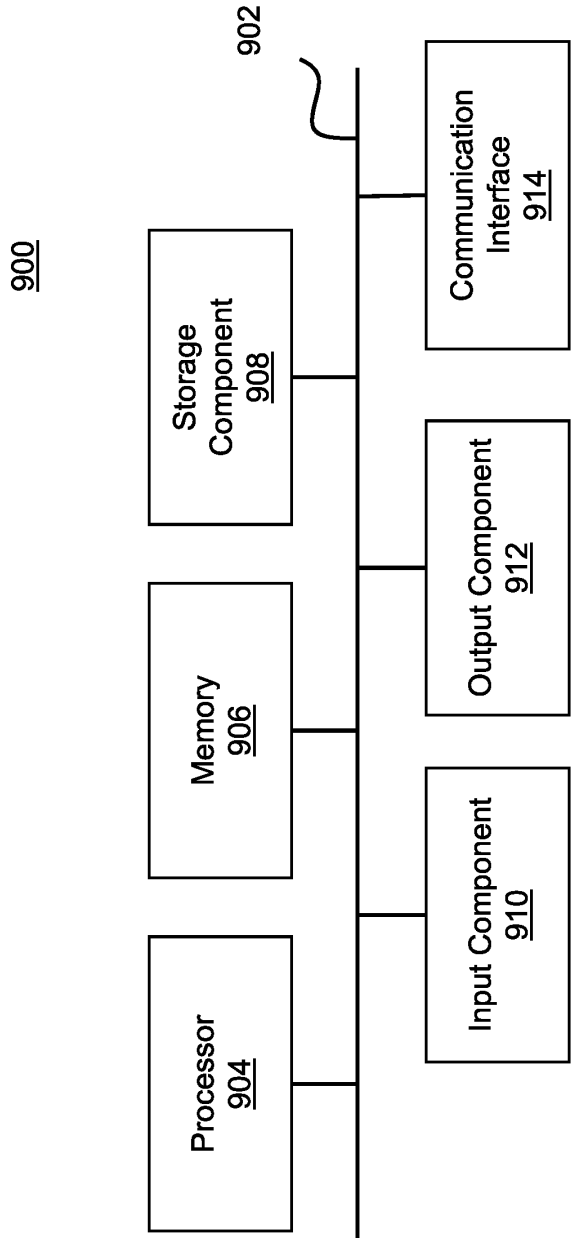


FIG. 4

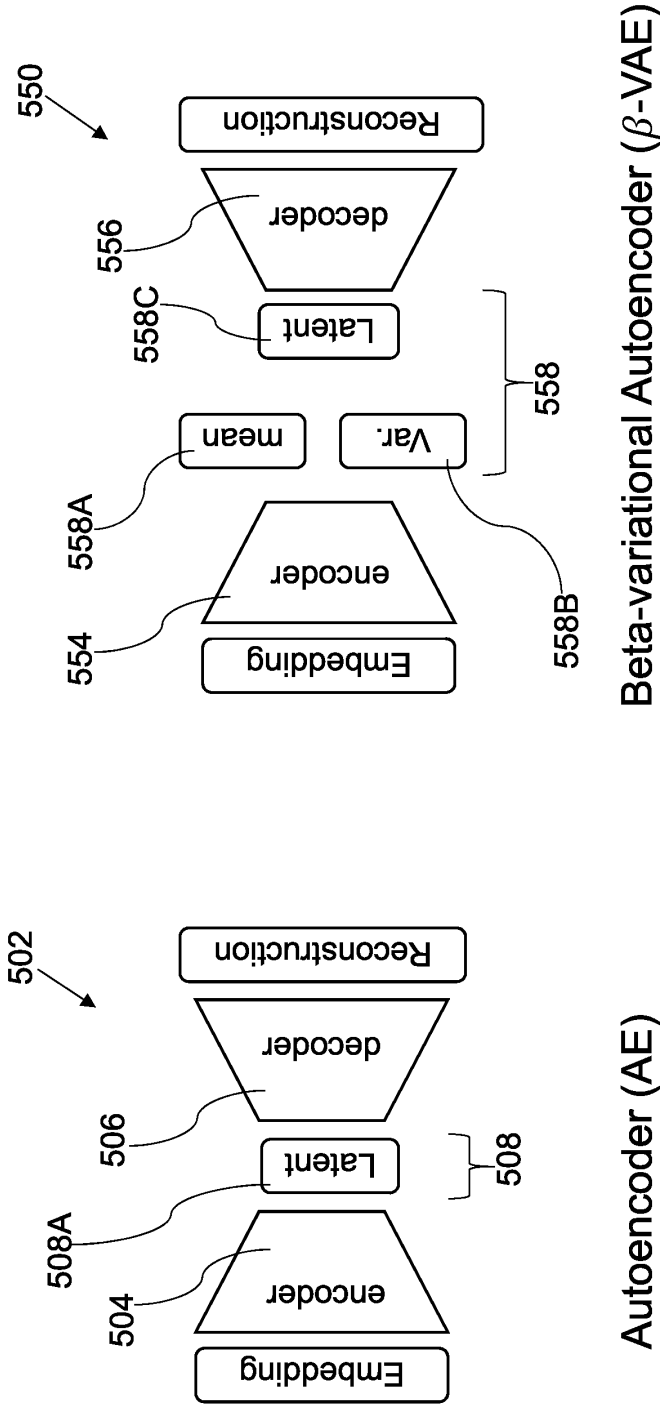
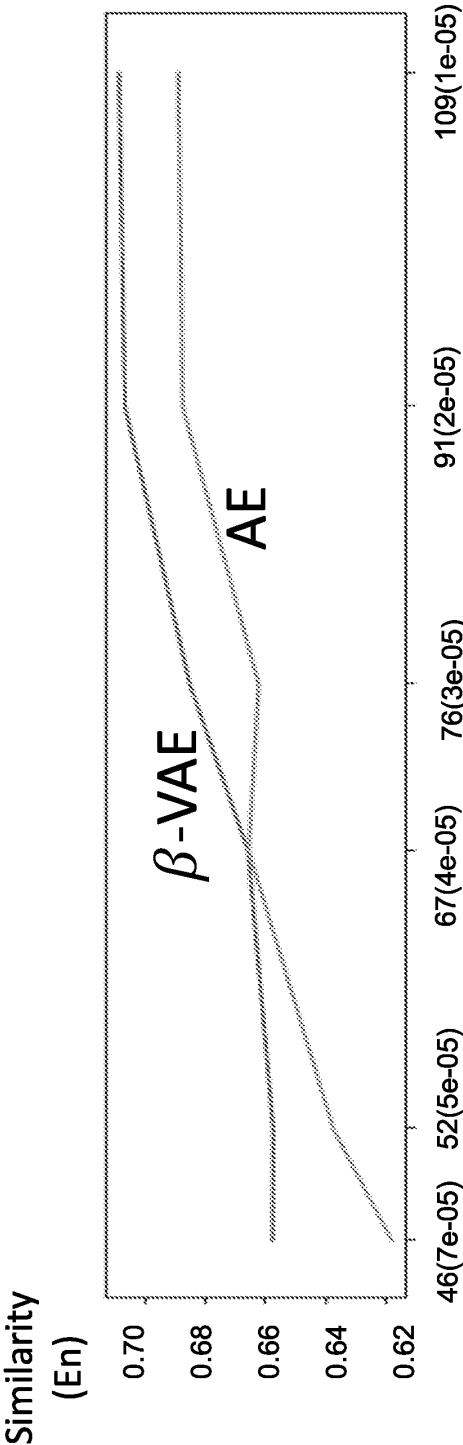


FIG. 5

	Language	En	De	It	Es	Fa
Similarity [0,1], higher = more similar	FastText (Baseline)	0.7288	0.7350	0.7369	0.7494	0.6784
	AE(350)	0.6977 (350)	0.7220 (350)	0.7260(350)	0.7491 (350)	0.6677(350)
	β -VAE	0.7082 (109)	0.7132(123)	0.7365 (110)	0.7448(110)	0.6926 (103)

FIG. 6A



Latent dimensionality (β value)

FIG. 6B