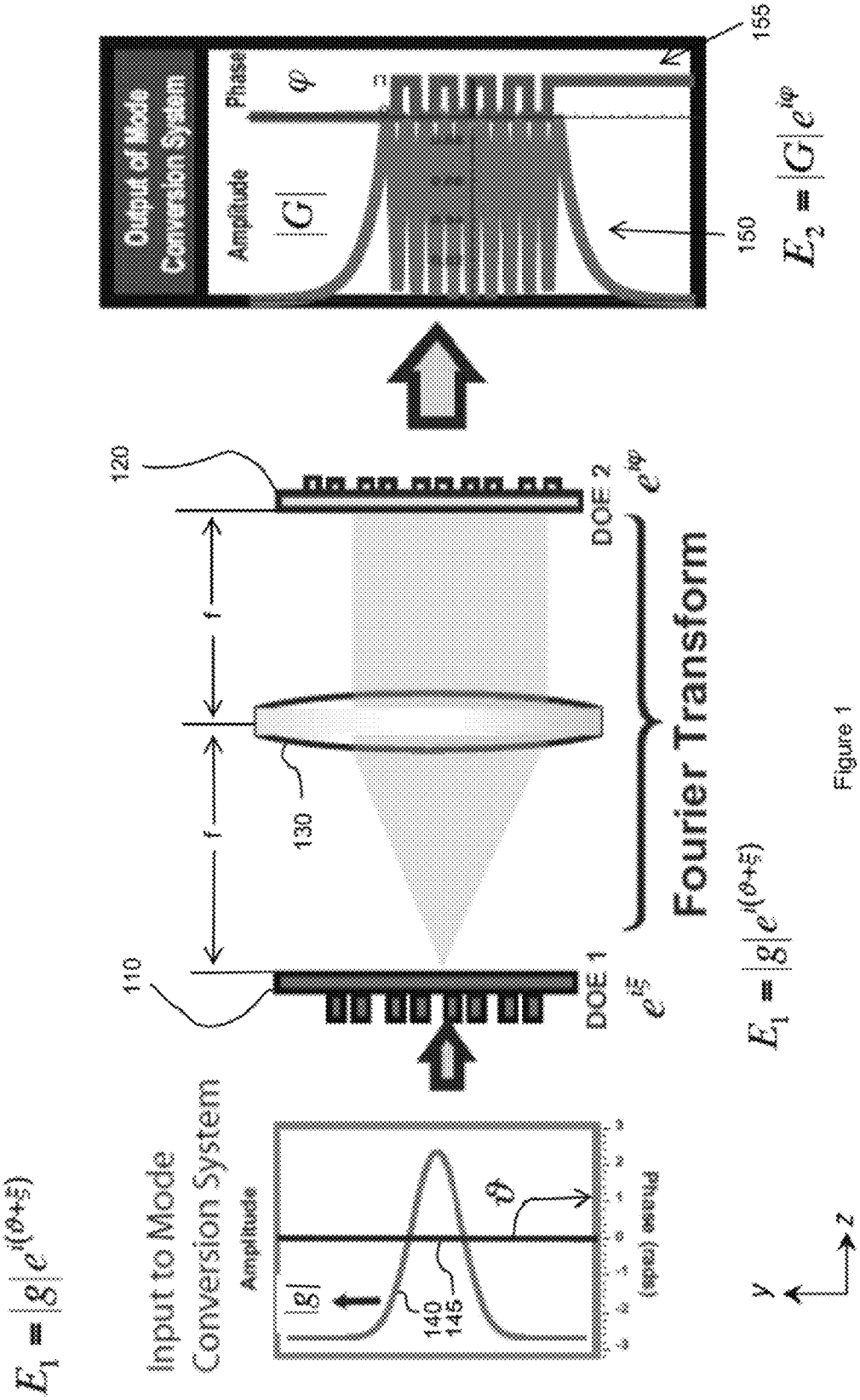

$E_1 = |g| e^{i(\vartheta+\xi)}$
Input to Mode Conversion System
Amplitude
$|g|$
140
145
ϑ
Phase (rads)
110
DOE 1
$e^{i\xi}$
f
f
130
120
DOE 2
$e^{i\varphi}$
Fourier Transform
$E_1 = |g| e^{i(\vartheta+\xi)}$
Output of Mode Conversion System
Amplitude
$|G|$
Phase
φ
150
155
$E_2 = |G| e^{i\varphi}$
y
z

Figure 1