

$$\begin{array}{ccccccc}
& & \overleftrightarrow{2L} & & \overleftrightarrow{M} & & \\
[w^\ell(1) \quad \cdots \quad w^\ell(N_3)] & = & \begin{pmatrix} v_0 & \cdots & v_{L-1} & & \\ & & & v_0 & \cdots v_{L-1} \end{pmatrix} & \begin{pmatrix} \tilde{c}_{0,1,\ell} & \cdots & \tilde{c}_{0,M,\ell} \\ \vdots & \ddots & \vdots \\ \tilde{c}_{2L-1,1,\ell} & \cdots & \tilde{c}_{2L-1,M,\ell} \end{pmatrix} & \begin{pmatrix} w_{f,1}^H \\ \vdots \\ w_{f,M}^H \end{pmatrix} \\
W^\ell & & W_1 & & W_2^\ell & & W_f^H
\end{array}$$

FIG. 3

M	Alfa	Beta
1	1	1
1	1	3/4
1	1	1/2
1	3/4	1/2
2	1	3/4
2	1	1/2
2	3/4	1/2
2	1/2	1/2

FIG. 4