FIG. 2  DESIGN PROFILE FOR EXTERNAL AND INTERNAL GENERAL PURPOSE ACME THREAD

- $F_{cn}$ = basic width of flat of crest of internal thread = 0.3707P
- $F_{cs}$ = width of flat of crest of external thread = 0.3707P - 0.259 X pitch diameter allowance on external thread
- $F_{rn}$ = 0.3707P - 0.259 X (major diameter allowance on internal thread)
- $F_{rs}$ = 0.3707P - 0.259 X (minor diameter allowance on external thread - pitch diameter allowance on external thread)
- $P$ = pitch
- $h$ = basic height of thread = $P/2$
- $n$ = number of threads/in.
- $\alpha$ = 14 deg 30 min
- $2\alpha$ = 29 deg
2\alpha = 29 \text{ deg.} \\
\alpha = 14 \text{ deg. 30 min} \\
P = \text{pitch} \\
n = \text{number of threads/in.} \\
N = \text{number of turns/in.} \\
h = 0.3P, \text{ basic thread height} \\
F_{cn} = 0.4224P, \text{ basic width of flat of crest of internal thread} \\
F_{cs} = 0.4224P - 0.259 \times (\text{pitch diameter allowance on external thread}) \\
F_{rn} = 0.4224P - 0.259 \times (\text{major diameter allowance of internal thread}) \\
F_{rs} = 0.4224P - 0.259 \times (\text{minor diameter allowance on external thread} - \text{pitch diameter allowance on external thread}) \\

FIG. 1  STUB ACME FORM OF THREAD