

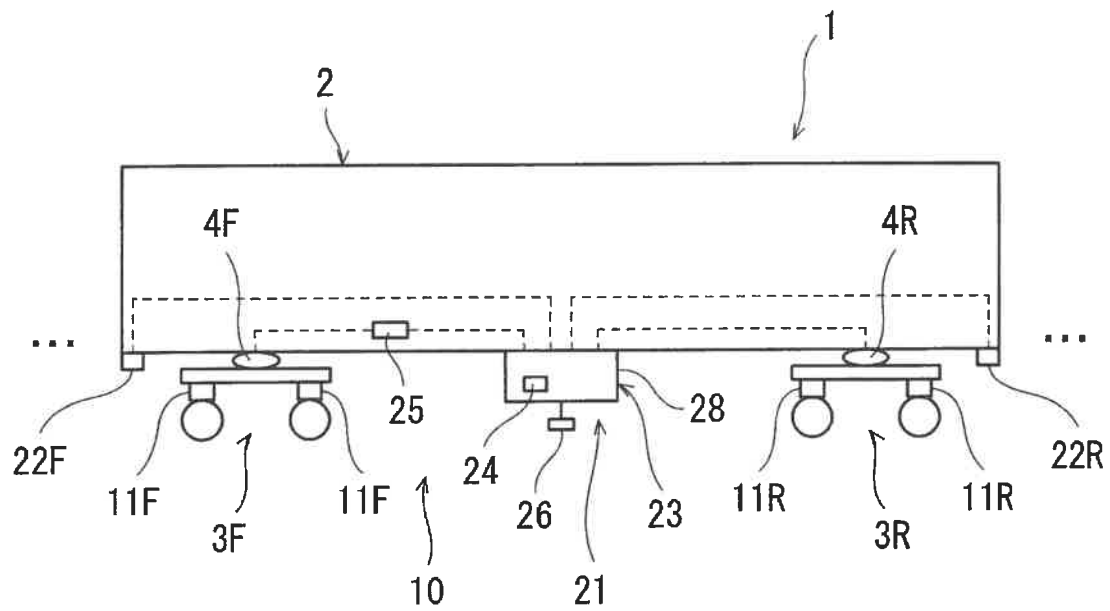


Fig.1

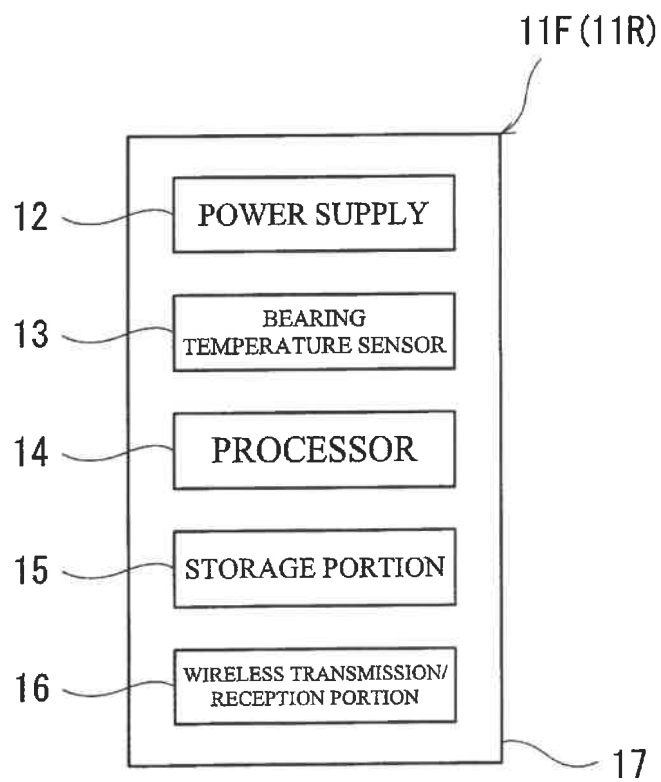


Fig.2

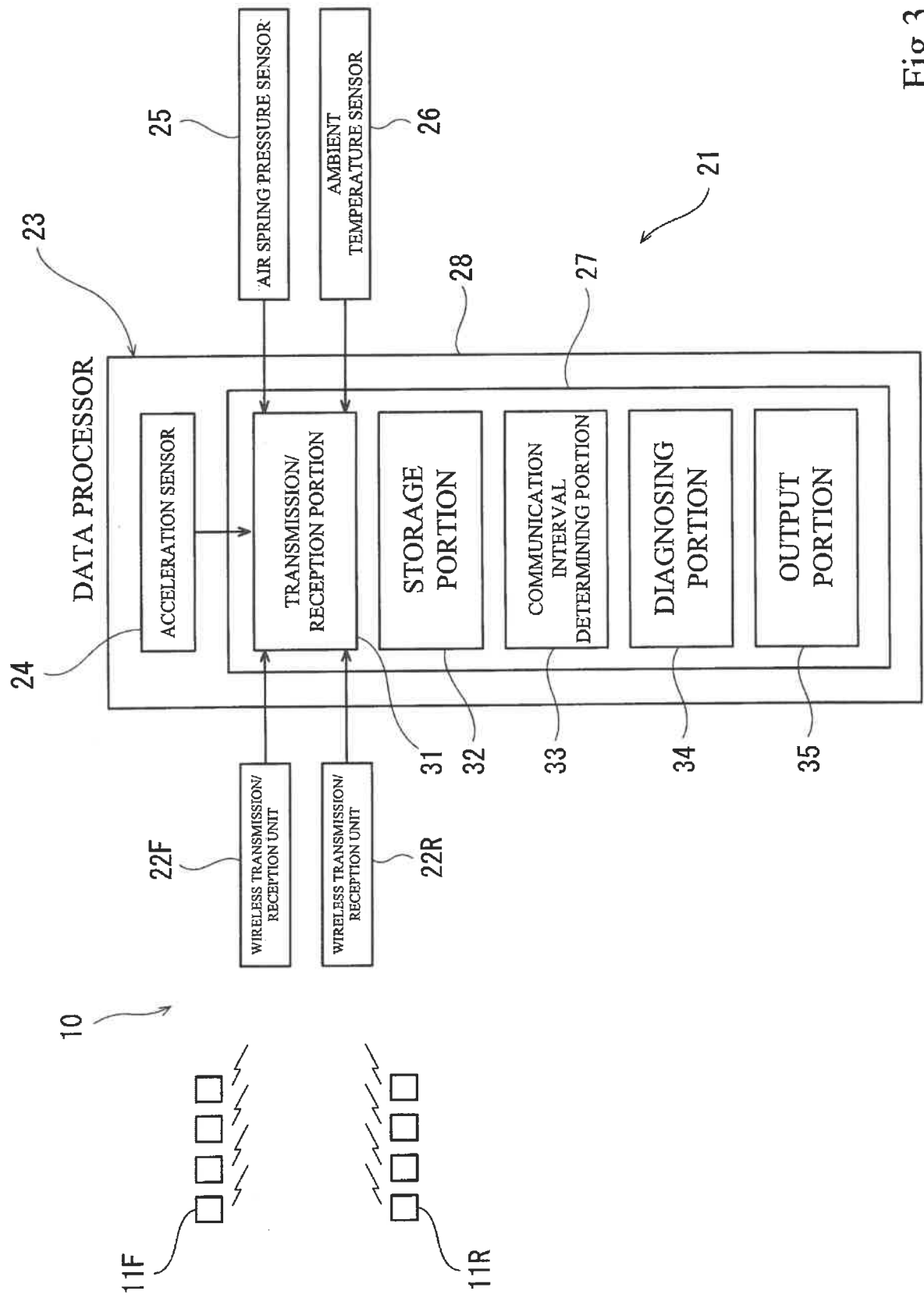


Fig.3

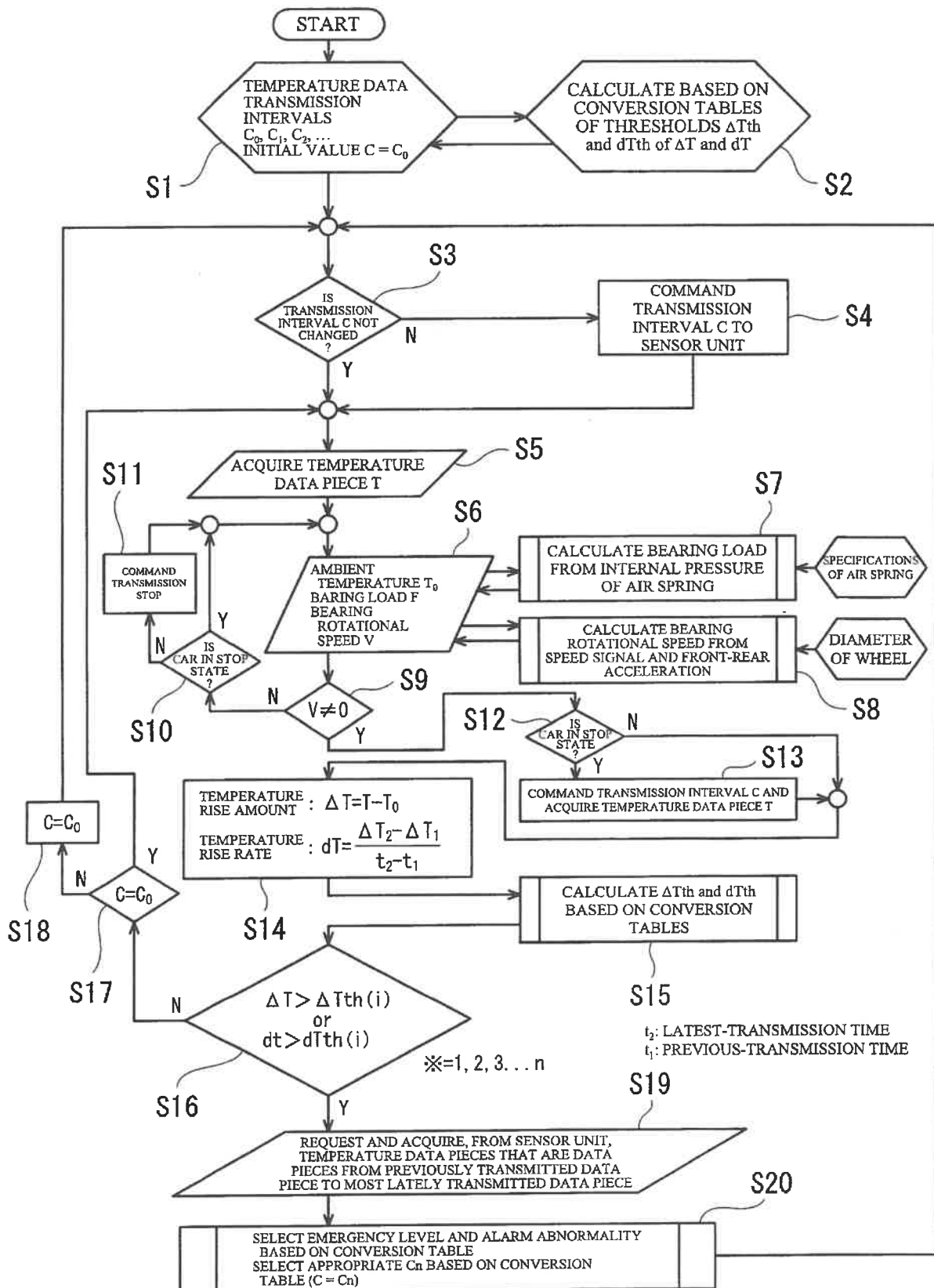


Fig.4

V \ F	20kN	30kN	40kN	
200rpm	$\Delta T_{th}(1)=20$ $\Delta T_{th}(2)=40$ $\Delta T_{th}(3)=50$	$\Delta T_{th}(1)=30$ $\Delta T_{th}(2)=45$ $\Delta T_{th}(3)=55$	$\Delta T_{th}(1)=35$ $\Delta T_{th}(2)=55$ $\Delta T_{th}(3)=60$	
400rpm	$\Delta T_{th}(1)=30$ $\Delta T_{th}(2)=45$ $\Delta T_{th}(3)=55$	$\Delta T_{th}(1)=35$ $\Delta T_{th}(2)=55$ $\Delta T_{th}(3)=60$	$\Delta T_{th}(1)=40$ $\Delta T_{th}(2)=60$ $\Delta T_{th}(3)=80$	
600rpm	$\Delta T_{th}(1)=35$ $\Delta T_{th}(2)=55$ $\Delta T_{th}(3)=60$	$\Delta T_{th}(1)=40$ $\Delta T_{th}(2)=60$ $\Delta T_{th}(3)=80$	$\Delta T_{th}(1)=50$ $\Delta T_{th}(2)=70$ $\Delta T_{th}(3)=90$	

Fig.5

V \ F	20kN	30kN	40kN	
200rpm	dTth (1)=5 dTth (2)=7 dTth (3)=11	dTth (1)=10 dTth (2)=15 dTth (3)=20	dTth (1)=15 dTth (2)=15 dTth (3)=20	
400rpm	dTth (1)=5 dTth (2)=7 dTth (3)=11	dTth (1)=5 dTth (2)=15 dTth (3)=20	dTth (1)=10 dTth (2)=18 dTth (3)=25	
600rpm	dTth (1)=10 dTth (2)=15 dTth (3)=20	dTth (1)=10 dTth (2)=18 dTth (3)=25	dTth (1)=15 dTth (2)=20 dTth (3)=30	

Fig.6

TEMPERATURE RISE AMOUNT	TEMPERATURE RISE RATE	TRANSMISSION INTERVAL C	ABNORMALITY LEVEL
$\Delta T_{th}(1)$	dTth (1)	C ₁	I
$\Delta T_{th}(2)$	dTth (2)	C ₂	II
$\Delta T_{th}(3)$	dTth (3)	C ₃	III

Fig.7