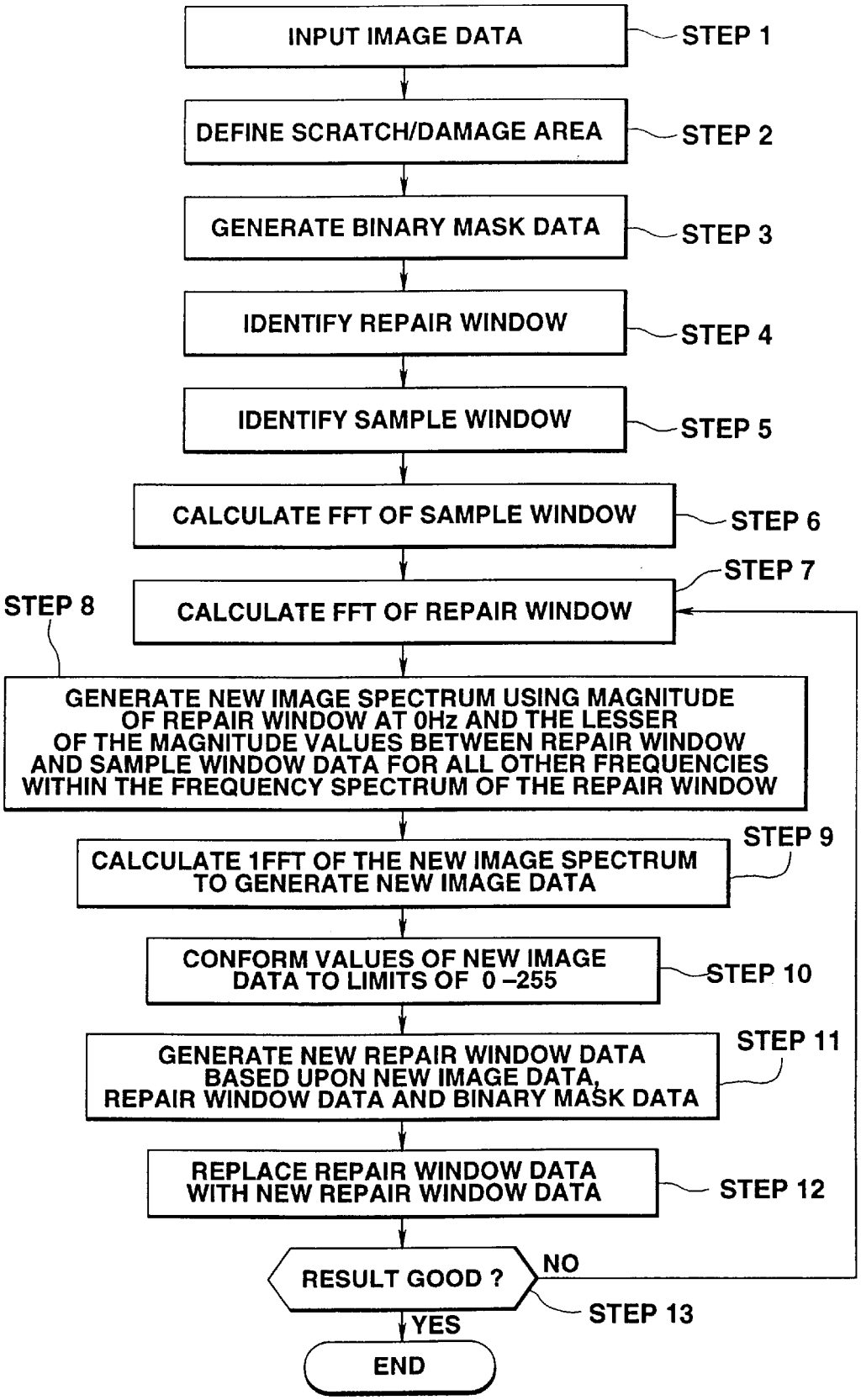
INPUT IMAGE DATA
STEP 1
DEFINE SCRATCH/DAMAGE AREA
STEP 2
GENERATE BINARY MASK DATA
STEP 3
IDENTIFY REPAIR WINDOW
STEP 4
IDENTIFY SAMPLE WINDOW
STEP 5
CALCULATE FFT OF SAMPLE WINDOW
STEP 6
STEP 7
STEP 8
CALCULATE FFT OF REPAIR WINDOW
GENERATE NEW IMAGE SPECTRUM USING MAGNITUDE OF REPAIR WINDOW AT 0Hz AND THE LESSER OF THE MAGNITUDE VALUES BETWEEN REPAIR WINDOW AND SAMPLE WINDOW DATA FOR ALL OTHER FREQUENCIES WITHIN THE FREQUENCY SPECTRUM OF THE REPAIR WINDOW
STEP 9
CALCULATE 1FFT OF THE NEW IMAGE SPECTRUM TO GENERATE NEW IMAGE DATA
CONFORM VALUES OF NEW IMAGE DATA TO LIMITS OF 0 –255
STEP 10
STEP 11
GENERATE NEW REPAIR WINDOW DATA BASED UPON NEW IMAGE DATA, REPAIR WINDOW DATA AND BINARY MASK DATA
REPLACE REPAIR WINDOW DATA WITH NEW REPAIR WINDOW DATA
STEP 12
RESULT GOOD ?
NO
STEP 13
YES
END

FIG.2