
110
120
130
140
150
Deframing
Shearing
Crushing
Sifting
Material packing

FIG. 1A

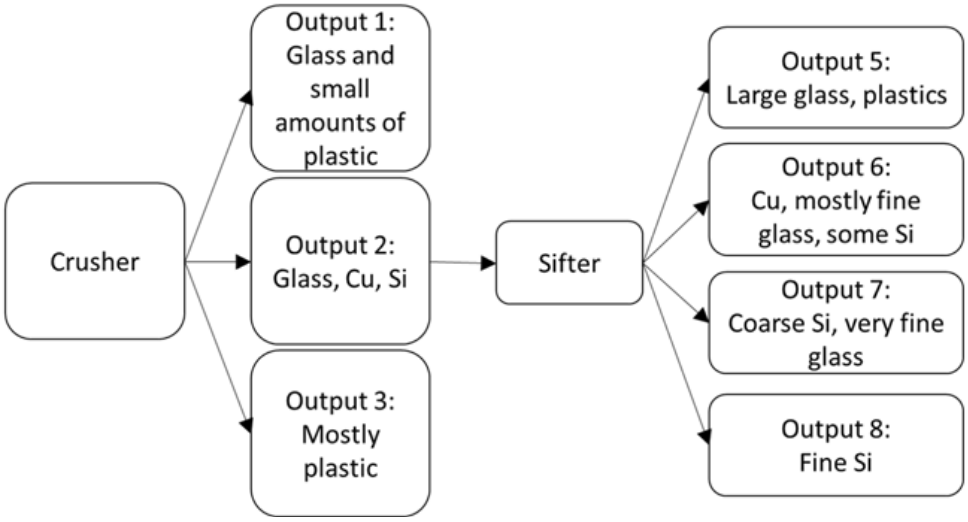

Crusher
Output 1: Glass and small amounts of plastic
Output 2: Glass, Cu, Si
Output 3: Mostly plastic
Sifter
Output 5: Large glass, plastics
Output 6: Cu, mostly fine glass, some Si
Output 7: Coarse Si, very fine glass
Output 8: Fine Si

FIG. 1B

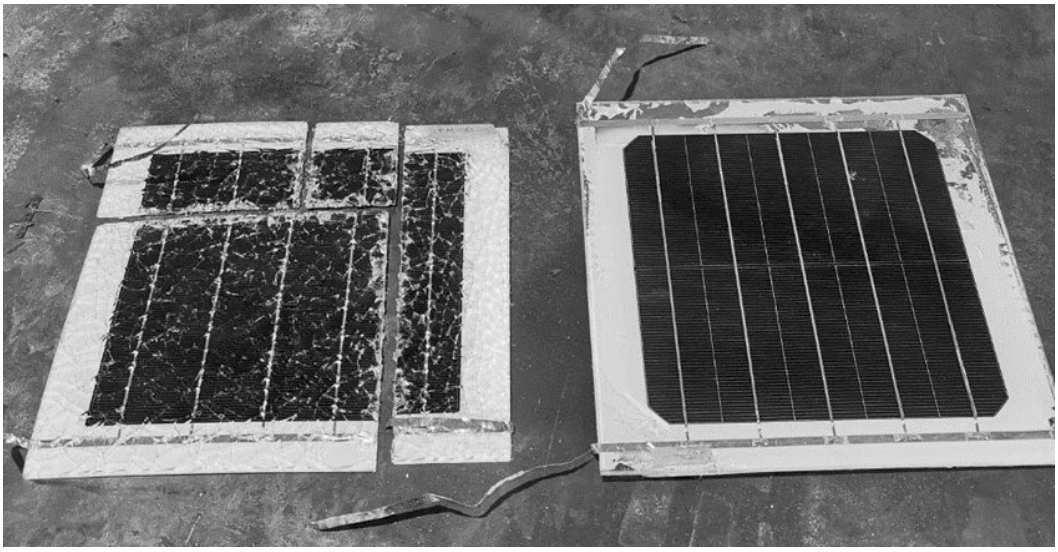


FIG. 2



FIG. 3

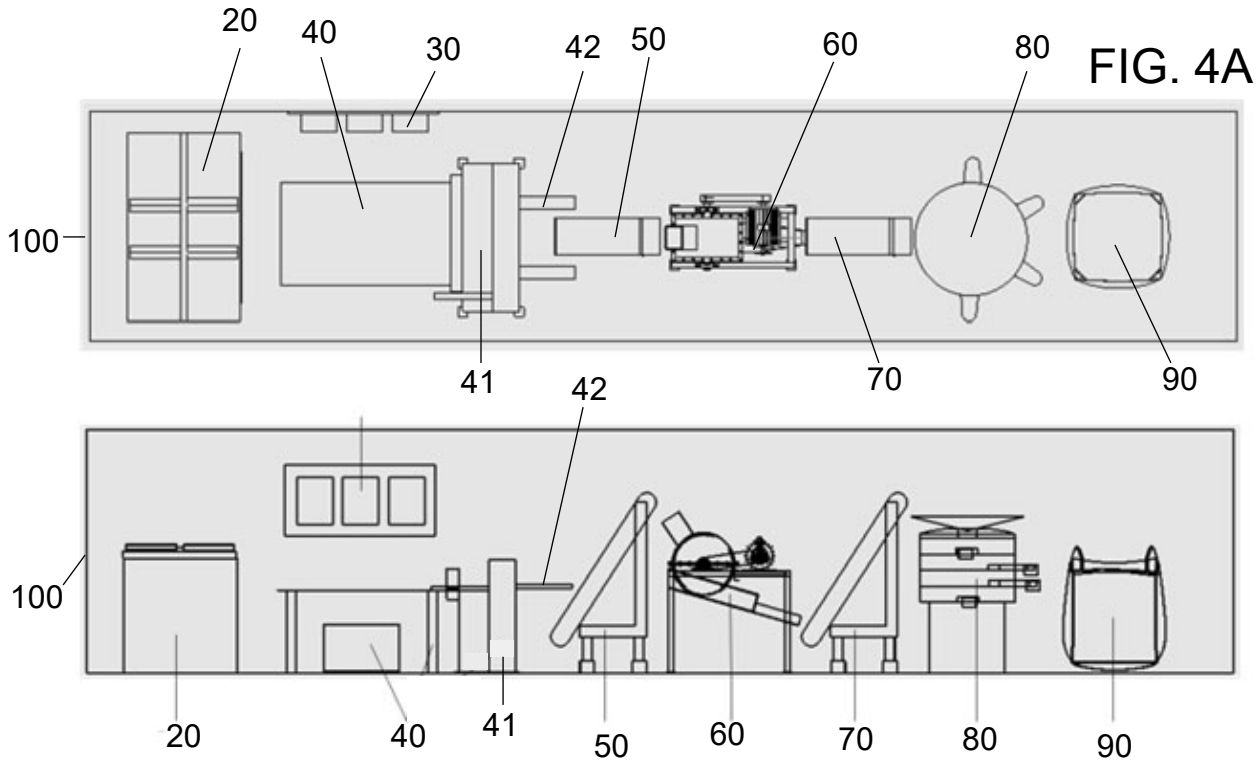


FIG. 4A

FIG. 4B

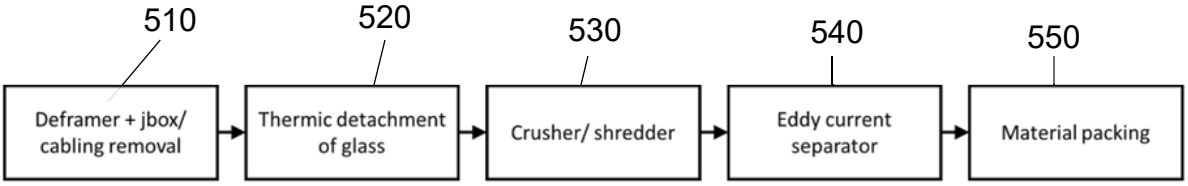


FIG. 5

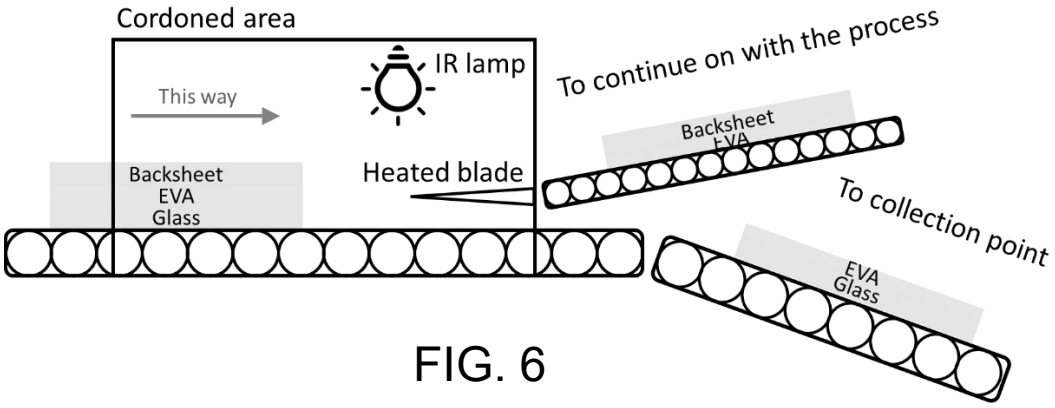

Cordoned area
IR lamp
This way
To continue on with the process
Backsheet
EVA
Backsheet
EVA
Glass
Heated blade
To collection point
EVA
Glass

FIG. 6

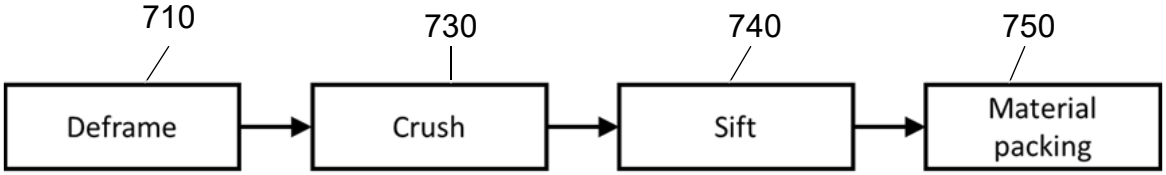

710
730
740
750
Deframe
Crush
Sift
Material
packing

FIG. 7

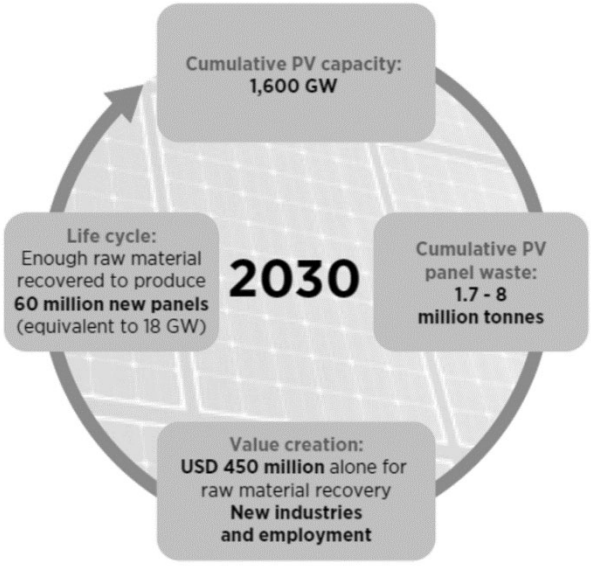

Cumulative PV capacity:
1,600 GW
Cumulative PV panel waste:
1.7 - 8
million tonnes
Value creation:
USD 450 million alone for raw material recovery
New industries and employment
Life cycle:
Enough raw material recovered to produce
60 million new panels
(equivalent to 18 GW)
2030

FIG. 8

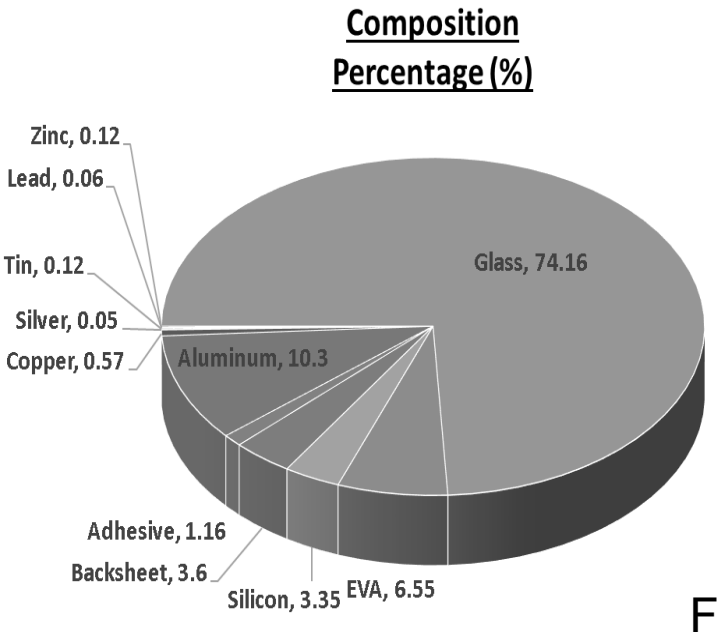

Composition
Percentage (%)
Zinc, 0.12
Lead, 0.06
Tin, 0.12
Silver, 0.05
Copper, 0.57
Glass, 74.16
Aluminum, 10.3
Adhesive, 1.16
Backsheet, 3.6
Silicon, 3.35
EVA, 6.55

FIG. 9