CLAIMS

We Claim

1. A screen panel for mining and quarrying industries adapted to be mounted on a screen deck, including a screening surface ~~made up of materials such as herein described~~ formed on a reinforcing, said screening surface having suitably designed apertures of desired shape for allowing materials of desired size to pass through, said apertures having a flaring design of hole shape thereby preventing clogging substantially and edges of said panel and gaps between said apertures are substantially reduced, wherein said screening surface, other than said apertures, are made of any one of or a combination of mild steel, stainless steel, rubber and/or polyurethane with or without steel reinforcing, and wherein said reinforcing ~~being~~ is an external steel reinforcing adapted to be mechanically fixed to said panel by button type fixing, whereby screening efficiency of said screen panel is substantially enhanced.

~~2. The screen panel as claimed in claim 1, wherein said reinforcing is a steel reinforcing and is adapted to be mechanically fixed to said panel by button type fixing.~~

2~~3~~. The screen panel as claimed in claim 1, wherein said reinforcing comprises externally reinforced body/support with panel fixing frame under the edge surface of said panel.

3~~4~~.The screen panel as claimed in ~~any preceding~~ claim 1 or claim 2 wherein said panel has a substantially high number of apertures thereby increasing the open area of said panel substantially and also reducing the thickness of said panel substantially.

~~5. The screen panel as claimed in claim 4 wherein said apertures have a flaring design of hole shape thereby preventing clogging substantially and edges of said panel and gaps between said apertures are substantially reduced.~~

~~6. The screen panel as claimed in any preceding claim, wherein said screening surface, other than said apertures, are made of any one of or a combination of mild steel, stainless steel, rubber and/or polyurethane with or without steel reinforcing.~~

4~~7~~. The screen panel as claimed in any preceding claim ~~6~~, wherein said panel comprises of vulcanized material, rubber polyurethane, having external steel reinforcing bars under the edge surface of said panel.

5~~8~~. A method of manufacturing a screen panel for mining and quarrying industries adapted to be mounted on a screen deck, including designing a screening surface ~~made up of materials such as herein described~~ formed on a reinforcing~~.~~, said method further including making suitably designed apertures of desired shape on said screening surface, for allowing materials of desired size to pass through, said apertures having a flaring design of hole shape thereby preventing clogging substantially and edges of said panel and gaps between said apertures are substantially reduced, wherein said screening surface, other than said apertures, are made of any one of or a combination of mild steel, stainless steel, rubber and/or polyurethane with or without steel reinforcing, and wherein said reinforcing is formed as an external steel reinforcing adapted to be mechanically fixed to said panel by button type fixing ~~in the manner such as herein described~~, whereby screening efficiency of said screen panel is substantially enhanced.

~~9.The method as claimed in claim 8 wherein said reinforcing is a steel reinforcing and is mechanically fixed to said panel by button type fixing under the edge surface of said panel.~~

6~~10~~. A screening deck for mining and quarrying industries, having mounted thereon a plurality of screen panels , each said panel including screening surface ~~made up of materials such as herein described~~ formed on a reinforcing, said screening surface having suitably designed apertures of desired shape for allowing materials of desired size to pass through, said apertures having a flaring design of hole shape thereby preventing clogging substantially and edges of said panel and gaps between said apertures are substantially reduced, wherein said screening surface, other than said

apertures, are made of any one of or a combination of mild steel, stainless steel, rubber and/or polyurethane with or without steel reinforcing, and wherein said reinforcing ~~being~~ is an external steel reinforcing adapted to be mechanically fixed to said panel by button type fixing, whereby screening efficiency of said screen panel is substantially enhanced.