Flavonoids in horse chestnut (*Aesculus hippocastanum*) seeds and powdered waste water by-products

**Description:**
The Seeds of horse chestnut contain also flavonoids being glycosides of quercetin and kaempferol. The patent application describes a method to extract flavonoids from the aqueous washing solution from horse chestnuts. The procedure seems to yield a relevant enrichment and amount of flavonoids in the dried extract. Biological data suggest that the extract has anti-oxidative effects. These data indicate that the crude dried extract should have interesting properties and the industrial horse chestnut waste waters can be used for obtaining quercetine and kaempferol glycosides for nutraceutical and food supplement industries therefore of use for several applications.

**Background:**
Horse chestnut extracts are widely used in pharmacy and cosmetic industries. The main active constituents are saponins of oleane type.

**Potential Application:**
Flavonoid extracts are being used in
- cosmetic industry
- pharmacy

**Benefits:**
Highly concentrated flavonoid extracts from horse chestnut waste water.

**IP Status:**
EP20080450107 20080715

**Type of Co-Operation:**
- License Agreement
- Ownership

**Keywords:**
- Horse chestnut
- Waste water
- Flavonoid
- Extract

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