

Title (en)  
SCRAPER WINCH

Title (de)  
SCHRAPPERWINDE

Title (fr)  
TREUIL À RACLETTES

Publication  
**EP 4321470 A1 20240214 (EN)**

Application  
**EP 23187218 A 20230724**

Priority  
SI 202200130 A 20220810

Abstract (en)  
The invention relates to a scraper winch for use in a mine. The technical problem is how to provide a winch that is of simple construction, single-drive, small in size, energy-efficient and easy to control. The winch (1) of the invention comprises an electric motor (2), a reduction gear (3) with an output shaft (4), a first freewheel clutch (5), fixedly mounted on the reduction gear output shaft (4), so as to allow torque to be transmitted in the first direction, while it rotates freely in the second direction, a second freewheel clutch (6), fixedly mounted on the reduction gear output shaft (4), so as to allow torque to be transmitted from the output shaft (4) in the second direction, while it rotates freely in the first direction, a first drum (7) fixedly mounted on the first freewheel clutch (5), a second drum (8) fixedly mounted on the second freewheel clutch (6), a control unit, and an operating unit.

IPC 8 full level  
**B66D 1/12** (2006.01); **B66D 1/14** (2006.01); **B66D 1/26** (2006.01)

CPC (source: EP)  
**B66D 1/12** (2013.01); **B66D 1/14** (2013.01); **B66D 1/26** (2013.01)

Citation (applicant)  
WO 2017216731 A1 20171221 - SULZER HYDROMINING (PTY) LTD [ZA]

Citation (search report)  
• [XY] AT 362100 B 19810427 - SCHAUER HERBERT  
• [YD] WO 2017216731 A1 20171221 - SULZER HYDROMINING (PTY) LTD [ZA]  
• [Y] GB 1360956 A 19740724 - INVENTIO AG  
• [Y] US 2019233262 A1 20190801 - HUANG SHIH-JYI [TW]  
• [Y] CN 104828728 A 20150812 - UNIV ZHEJIANG OCEAN

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4321470 A1 20240214**; SI 26399 A2 20240229

DOCDB simple family (application)  
**EP 23187218 A 20230724**; SI 202200130 A 20220810